Supporting Parent-Child Experiences with *PEG+CAT* Early Math Concepts:

Report to the CPB-PBS Ready To Learn Initiative



November 2015



SRI Education

Authors

Shelley Pasnik, Education Development Center Naomi Hupert, Education Development Center Megan Silander, Education Development Center

Contributing Researchers

Loulou Bangura, Education Development Center Brita Bookser, SRI International Elizabeth Christiano, SRI International Sarah Gerard, SRI International Marion Goldstein, Education Development Center Jaime Gutierrez, Education Development Center Brianna Hightower, Education Development Center Irene Yelee Jo, Education Development Center Terri Meade, Education Development Center Savitha Moorthy, SRI International Carlin Llorente, SRI International Ximena Dominguez, SRI International

Danae Kamdar, SRI International Andrew Krumm, SRI International Breniel Lemley, SRI International Deborah Rosenfeld, Education Development Center Elica Sharifnia, SRI International Sara Vasquez, SRI International Michelle Vedar, SRI International Regan Vidiksis, Education Development Center

Report Design

Kate Borelli, SRI International

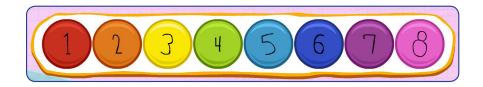
Suggested Citation

Pasnik, S., Moorthy, S., Llorente, C., Hupert, N., Dominguez, X., & Silander, M. (2015) *Supporting Parent-Child Experiences with PEG+CAT Early Math Concepts: Report to the CPB-PBS Ready to Learn Initiative*. New York, NY & Menlo Park, CA: Education Development Center & SRI International.

© 2015 by Education Development Center and SRI International.

Contents

Introduction	1
Research Design	3
Theory of Change and Existing Research Base	9
PBS KIDS <i>PEG+CAT</i> Intervention	13
Implementation	17
Methods	21
Analytic Approach	29
Summary of Results	33
Results in Detail	35
Up Close: Media Use in PBS KIDS Homes	55
Limitations and Constraints	61
Discussion and Future Research	63
References	69
Appendices	73



Introduction

Deep inequalities in the learning trajectories of students have led to a growing interest in interventions meant for young children who are at higher risk for academic difficulties. Children living in communities where there are high concentrations of poverty, for example, often do not have access to the financial and social resources that promote school readiness but have just as much capacity to develop a broad range of skills as their better-resourced peers. In addressing persistent gaps in achievement, some federal programs have focused on children's formal educational experiences calling for greater investments in preschool while others have turned their attention to educational supports outside of school and early childcare settings.

For more than two decades, the U.S. Department of Education's *Ready To Learn Initiative* has devoted public resources to help improve conditions inside the place where children spend much of their time growing and learning: their homes. Families, including families with young children, spend considerable time engaging with digital media and technology tools at home (Rideout, 2014; Rideout, Vandewater, & Wartella, 2003), and children with less-educated parents tend to spend more time with TV and other screens than do children with more affluent, educated parents (Putnam, 2015). Although much of this engagement is with commercial entertainment, young children spend more time viewing and playing with educational and non-commercial programming than do other groups (Rideout, 2013), creating the potential to use their engagement with media to support learning. And, because media experiences are often social—young children and other family members watch and play alongside one another—there is even greater potential to create learning experiences that involve children and their parents. When parents are able to engage with well-designed transmedia resources, and when they have access to information about how they can use these resources to support children's understanding and engagement, the stage is set for early learning to take place. This is consistent with a growing body of research on the need for a two-generation strategy when trying to combat poverty and educational challenges that stem from economic stress (DeNevas & Proctor, 2015).

The study presented here addresses the question of how time spent viewing and playing with PBS KIDS educational, non-commercial media can benefit young children's learning, especially those growing up in lower-income communities, who typically have limited exposure to experiences that are oriented toward school-readiness. The pair of overarching goals of this CPB-PBS *Ready To Learn* research is to 1) explore how transmedia can support children's early mathematics learning, and 2) substantively address the central role that parents/caregivers play in children's learning lives. This report includes information about shifts in parent/caregiver perceptions of transmedia use, as well as how families engage with their children during transmedia viewing and play.

Using a randomized controlled trial design that gathered data on outcomes and implementation, researchers examined children's and families' home use of *PEG+CAT* a PBS KIDS transmedia program implemented over a 12-week period. Like previous generations of public media preschool programming, *PEG+CAT* resources are designed to give young children early experiences that support later success with academic tasks. As Peg and Cat, along with their friends and adversaries, "find a way to solve the math and save the day" in their animated fictional universe, their adventures introduce children to key mathematical skills and provide positive models of social and emotional behaviors, such as problem solving and persistence. Because *PEG+CAT* was designed as a first-generation transmedia property—the characters and storylines extend across multiple media platforms—study materials included *PEG+CAT* full episodes and video clips, online games, a tablet-based app, and print activities that allow children and families to engage with the same characters, settings, and narratives on multiple devices and with fewer time and location constraints.

The resources are intended to be fun, and purposefully focus on developmentally appropriate learning goals for young children. The study involved approximately 200 children and their families living in lower-income communities in the New York Metro and San Francisco Bay Area. Half of these children and families engaged with a curated set of *PEG+CAT* materials at home; the other half, in addition to serving as the business-as-usual comparison condition, also helped the research team gain insight into families' practices around media, including how children and parent/ caregivers jointly used media. This report provides new evidence about how an informal experience with a transmedia property can influence children's mathematics learning, and parents' behaviors and attitudes.

This research is part of the summative evaluation of the CPB-PBS *Ready To Learn Initiative*, which is supported by the U.S. Department of Education and seeks to develop engaging, high-quality educational programming and supports for two- to eight-year-old children living in low-income households. During the 2010-2015 grant cycle, *Ready To Learn* aimed to deliver early mathematics resources on both established technologies (computers, video displays, and gaming consoles) and emerging digital platforms (tablet computers, interactive whiteboards, and smartphones) to create anytime-anywhere learning experiences that leverage the unique capabilities of transmedia for young children's learning. As the summative evaluation team for Ready To Learn, Education Development Center (EDC) and SRI Education (SRI) document and, whenever possible, measure the impact of PBS KIDS transmedia mathematics resources on children's school readiness.

Prior *Ready To Learn* evaluation research findings, including context studies and impact studies, focused on the role of transmedia in early learning classrooms, more directly with children in a learning lab study environment, and the home can be found at <u>pbskids.org/lab/research</u>.

PEG+CAT The Play Date Problem episode

The study resources are intended to be fun, and purposefully focus on developmentally appropriate learning goals for young children.





Research Design

The goal of this study was to understand the conditions within which public media resources deliver on their promise of fostering positive outcomes for children and parents/caregivers. As a result, the study design sought to identify and describe (1) how use of PEG+CAT resources influenced children's knowledge of target mathematics and social emotional skills;¹ (2) how use of these resources influenced parent/caregiver attitudes and beliefs; and (3) how children and families engaged with selected PEG+CAT resources in their homes.

Research Questions

The research team investigated the following research questions related to families' engagement with media and outcomes for parents/caregivers and children.

Child Learning Outcomes

- Did children who engaged with *PEG+CAT* resources at home improve in target mathematics skills, as measured by a researcher-designed assessment, compared to children in a comparison condition?
- Did children who engaged with *PEG+CAT* resources at home improve in target approaches to learning (ATL) skills, as measured by teacher and/or parent observation, compared to children in a comparison condition?

Parent/Caregiver Outcomes

- What role did parents/caregivers play in supporting children's engagement with *PEG+CAT* media and, by extension, their learning of target mathematics and ATL skills?
- In contrast to a comparison group, did parents or caregivers using the PEG+CAT resources change their attitudes, beliefs, or knowledge about (1) educational media- and technology-supported learning, (2) early mathematics, (3) children's approaches to learning, and (4) their role in supporting children's math learning?

¹ Also known as Approaches to Learning (ATL), social-emotional skills include skills such as problem solving, persistence, and cognitive flexibility.

Family Engagement

- What were the experiences of families while using the designed *PEG+CAT* materials (e.g., videos, games, and family support materials) to support learning at home?
- What facilitators and barriers did families encounter while using the *PEG+CAT* materials? What supports, if any, helped families overcome the barriers?
- What were the contexts in which families engaged with media? What, if any, were the similarities and differences between families using the *PEG+CAT* intervention materials and families in a comparison group with respect to engagement and joint engagement with educational media and technology?

Study Conditions

The study employed a two-condition design in which participating families were randomly assigned either to (1) a PBS KIDS treatment group or (2) a non-treated business as usual comparison group. Families who were assigned to the PBS KIDS group were provided with technology resources (an Android tablet and a Chromebook laptop, a curated PEG+CAT experience, and supports for joint engagement. The curated PEG+CAT experience and the supports for joint engagement are described in the PBS KIDS PEG+CAT Intervention section, below. Participants in the business as usual group were asked to continue with their typical home behaviors with regard to children's technology and media use.

The two-group design offers a number of important benefits. First, it provides the strongest possible contrast between groups, so as to detect differences in adult and child outcomes between the two groups. Second, the inclusion of a business as usual comparison group allows researchers to make stronger claims about implementation and about parent and child outcomes. Finally, including a non-treated business as usual comparison group provides a unique opportunity to describe how contemporary families are engaging with media and technology. This closer examination is a powerful complement and extension of recent survey-based research conducted by Common Sense Media and the Joan Ganz Cooney Center (e.g., Rideout, 2014).

Study Sample

Researchers worked with local preschools to recruit eligible families to participate in the study. Recruitment teams on both coasts collected signed consent forms from families interested in participating. In total, researchers received 362 consent forms. Of this group, 301 children met study age requirements. Between the collection of consent forms and randomization, families of 17 children opted out, indicating they were too busy to participate in study meetings and other activities. Researchers randomly assigned the remaining 284 children to either the PBS KIDS (treatment) condition or the business as usual (comparison) condition.

The final study sample included 197 children from families who enrolled in the study by attending study kick-off meetings. These children attended 14 preschool centers (10 in the New York metropolitan area and 4 in the San Francisco Bay area) serving low-income communities. Table 1 provides information on children's ages.

Five families stopped participating during the course of the study (3 CA, 2 NY; 4 business as usual, 1 PBS KIDS). Two families withdrew in the first weeks of the study because they were not able to complete required study tasks such as completing media diaries; two families moved during the study; and one family dropped out because of parent health issues. There was no discernable pattern in attrition.

Condition	Ν	Mean Age	SD	Minimum	Maximum
Overall	197	4 y 5 mo.	0.28	4 y 0 mo.	5 y 2 mo.
PBS KIDS	101	4 y 6 mo.	0.28	4 y 0 mo.	5 y 1 mo.
Business as usual	96	4 y 4 mo.	0.28	4 y 0 mo.	5 y 2 mo.

Table 1. Total Sample of Children and Descriptive Statistics for Age by Condition

Study families were predominantly Latino, Asian American, and African American. The majority (53%) of families in the sample reported speaking more than one language at home (English/Spanish or English/Mandarin Chinese). The remaining 47% of families in the sample were monolingual, with home language of English (21%), Mandarin Chinese (10%), Spanish (12%), or Other (Vietnamese or French, 4%).

In terms of parental education, 33% of mothers had not graduated high school, while approximately 29% had earned a high school diploma or GED; 37% of fathers were not high-school graduates, while 28% had earned a high school diploma or GED. The total household income (in 2013) was consistent with the low-income sample sought: more than half (52%) of families reported an annual household income of less than \$25,000, while a little over a third (36%) of families reported an annual household income of \$25,000–\$49,000. Four percent of the children in the sample had an Individualized Education Plan (IEP). Table A2. Sample Demographics and Descriptive Statistics by Condition provides additional detail about study demographics by condition.

Media and Technology Use in Participating Families

To describe the home media ecology of the sample, researchers relied on data gathered from a parent survey administered at the beginning of the study. In addition to gathering information about the technology in homes, the survey also collected information about how these devices typically were used by families.

Given a list of 13 devices and services, families reported owning or using an average of five to six items. Figure 1 shows the percentage of families that reported owning or using particular devices in their homes.

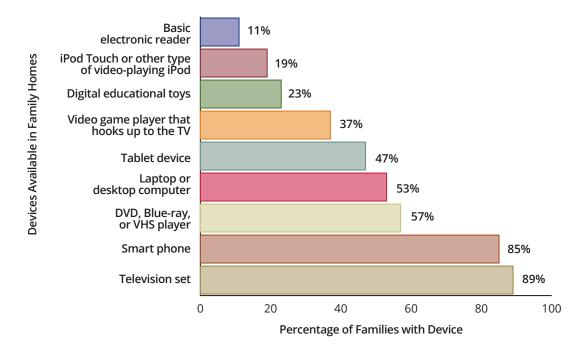


Figure 1. Media Devices Available in the Homes of Participating Families (*n*=197)

Television was the most dominant technology platform among participating families, but families engaged in a variety of media experiences. Eighty-nine percent of study families reported they had at least one TV set in the home; a similar number also reported having a smart phone (85%). Other popular technology devices available to families included home desktop or laptop computers, electronic tablets, and DVD, Blu-Ray, or VHS players. PBS KIDS families reported owning slightly more types of devices than did business as usual families (a statistically significant average of 5.77 devices, compared to 5.05 devices, p<.05). Approximately three-fourths of the sample reported subscribing to cable or satellite TV, while about a third of the sample reported using a paid video subscription such as Hulu, Netflix, or Amazon Prime.

At the start of the intervention, nearly half of all parents (40%) reported that their children watch TV, DVDs, online videos, or other types of videos every day at home, with 85% reporting that their child did so at least once per week. Close to half of the children (46%) read or looked at electronic books at home at least once per week. About one-third of the children played games on a video game player, computer, or mobile device (35%) and/or used apps or software programs (31%) one to two times per week. Often, children multi-tasked while engaging with media: at least once per week, 85% of all children used technology while doing another activity, such as playing with toys, riding in a car/ bus/train, or eating a meal.

The majority of families (81%) reported having home Internet access, although high-speed broadband access was available to fewer than half. Forty-four percent of families reported high-speed broadband access, while the remaining families (37%) reported access only through a cell phone, dial-up, or were unsure of the type. Notably, more than half of the families in New York (55%) reported broadband access, but a much smaller proportion of families in California (35%) reported such access.

Parents reported that about a third of the children in the sample (34%) used technology for one hour or less per day, while a similar proportion (35%) used technology for one to two hours per day. Much smaller proportions of children used technology for two to three hours per day or for three or more hours per day. Figure 2 shows the amount of time children in participating families spent (per day) using media and technology.

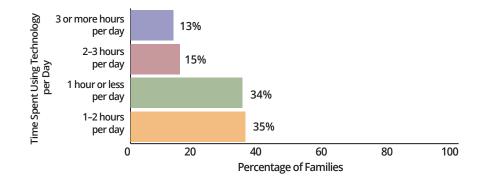


Figure 2. Children's Time Spent Using Technology per Day (n = 197)

Attitudes Toward Mathematics Learning and Technology Among Participating Families

Prior to participating in the study, parents tended to agree or strongly agree that young children can learn math, that math learning can happen everywhere, and that parents can support math learning. The vast majority of parents also tended to agree or strongly agree that technology should be part of children's learning and that technology is a useful tool for teaching math skills to young children. Figure 3 shows the proportion of parent/caregivers who agreed or strongly agreed with different aspects of math learning and technology use for math learning.

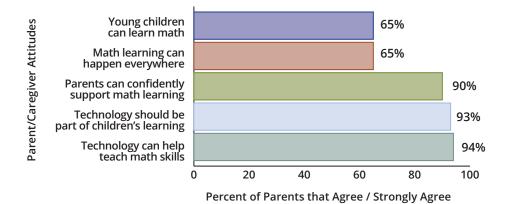


Figure 3. Parents'/Caregivers' Attitudes About Mathematics and Technology (n=197)

Most parents reported supporting math learning at home, especially for well understood mathematics skills like counting, recognizing or drawing shapes, and number identification. Fewer parents reported supporting less common skills at home, like recognizing/making patterns and addition.

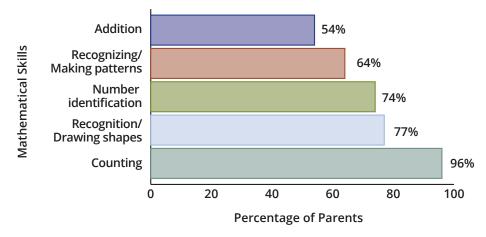
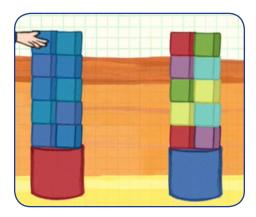


Figure 4. Mathematics Skills Supported by Parents at Home (n = 197)

Parents in the study sample overwhelmingly believed that technology can and should be part of children's learning (90%). The majority of parents reported that technology can help young children learn skills they will need in the future, provide children with information they may not get at home or school, and encourage children's creativity. Additionally, most parents viewed technology as a helpful tool for teaching mathematics and reading skills to young children.

The majority of parents reported they limit the content their children access (57%), set limits on technology use based on their children's behavior (58%), and set limits by observing their child's use of technology (53%). Parents were divided on the issue of how much time children should spend using technology: More than half (54%) of parents felt that children, in general, spend too much time using technology, while 40% of parents did not consider this an issue. Close to one-third of parents surveyed (28%) considered technology to be a distraction from learning.



Theory of Change and Existing Research Base

This study, and the PBS KIDS *PEG+CAT* intervention that it examined, is grounded in the learning sciences literature on mathematics and approaches to learning (ATL), educational media and technology, and the affordances of engagement and joint engagement with media for supporting children's learning in various domains. Based on existing research, the study team developed a theory of action to inform the design of the intervention and data collection measures.

Inputs	Activities	Outputs	Outcomes
Identification of focal mathematics skills and ATL skills <i>PEG+CAT</i> videos and online games, selected and sequenced to address focal mathematics skills and ATL skills Parent mediation materials Technology resources (ChromeBooks, tablets, and data plans)	Use of target videos, games, and supplemental activities Use of parent mediation materials Joint engagement with (selected) media (JEM) between adults and children Individual engagement of children with (selected) media	 Media-centered interactions between adults and children that are consequential for learning Focus on target mathematical and ATL skills Para-social relationships between children and characters in <i>PEG+CAT</i> Opportunities for exploration, application, and practice 	Children Illustrate improved understanding of target mathematical skills Exhibit behaviors indicating improved understanding of target ATL skills Parents/Caregivers Engage more frequently with their children around media
			Exhibit more positive attitudes towards using media and technology for learning Are more confident about supporting their child's mathematical learning and social emotional development Support children's

mathematical learning and social emotional development

Mathematics and Approaches to Learning (ATL)

All children are able to learn foundational early math skills, and preschool interventions have been shown to positively influence early mathematics learning (Ginsburg, Lee, & Boyd, 2008). While there is growing consensus about the importance of early mathematics learning and how early mathematics learning predicts long-term outcomes, especially for children growing up in low-income communities (e.g., Duncan et al., 2007; National Association for the Education of Young Children, 2012; National Mathematics Advisory Panel, 2008), children who are the focus of the *Ready To Learn Initiative* often do not have the same opportunities to develop foundational mathematics skills compared to their more affluent peers (Lee & Burkham, 2002; National Mathematics Advisory Panel, 2008). While efforts to improve formal early learning environments (e.g., adopting new curricula, using new resources, expanding teacher preparation and professional development) are essential, supporting children in learning early mathematics through structured, supported engagements between parents and caregivers has shown promise as well (Starkey, Klein, & Wakeley, 2004).

Likewise, there is a growing body of evidence that indicates that ATL skills (sometimes called "non-cognitive" skills), such as persistence, productive collaboration, and flexible problem solving, are crucial to learning and development, and that early development and strengthening of these skills predicts positive long-term outcomes in school and beyond (George & Greenfield, 2005; Hyson, 2008; Jones, Greenberg, & Crowley, 2015; Kagan, Moore, & Bredekamp, 1995). ATL skills also have been shown to be malleable and amenable to intervention in preschool settings (e.g., Fantuzzo, Gadsden, & McDermott, 2011) and associated with particular instructional practices (Dominguez, Vitiello, Maier, & Greenfield, 2010; Rimm-Kaufman, La Paro, Downer, & Pianta, 2005; Stipek & Seal, 2001; Wigfield & Eccles, 2002; Wigfield, Eccles, Schiefele, Roeser, & Davis-Kean, 2006). While there are no home-based ATL interventions documented in the literature, parent behaviors and the home environment are important to children's development of ATL skills and there are strategies that families can take up to support ATL (e.g., Hyson, 2008; Stipek & Seal, 2001).

Home Media and Technology Engagement

Young children and their families spend considerable time engaging with media and technology resources at home (e.g., Rideout, 2014; Rideout & Hamel, 2006; Rideout et al., 2003). While the majority of this engagement is with commercial entertainment, young children spend more time engaging with educational and non-commercial programming than do other groups (Rideout, 2014). Parent and caregiver attitudes and beliefs align with research that shows that educational media and educational technology can benefit children's learning and development (Gorges et al., 2014; Rideout, 2014,).

As media formats increase and become more readily available in the home environment, children are increasingly spending time with transmedia properties. The term transmedia describes digital games, videos, and hands-on materials involving a consistent set of characters, settings, and narrative themes across different media formats. A growing body of evidence shows that children, parents, and teachers become motivated by their knowledge of and familiarity with different characters—Peg and Cat behave in the same predictable ways whether in a streaming video or on the screen of a tablet-based game—and the relationships young learners form with these characters and the worlds they occupy create a backdrop for acquiring new knowledge and practicing skills (Jennings, Hunt, Altenau, & Linebarger, 2008;

Richert, Robb, & Smith, 2011; Schiappa, Allen, & Gregg, 2007). Transmedia can support learning because it provides a consistency and support, through engagement with the same characters and storylines over time and across various physical and social settings, and gives children and the adults who care for them rich opportunities to explore multiple and varied learning experiences from one medium to the next (Pasnik & Llorente, 2013).

Media and Technology for Early Mathematics and Approaches to Learning (ATL)

Interventions that feature engagement with public media videos and transmedia suites have been effective at supporting math, literacy, and science learning in lab, school, and home settings, and have been associated with gains in content domains like literacy, science, and math as well as ATL and school readiness skills like problem solving (Fisch, 2004; McCarthy, Li, & Tiu, 2012; Pasnik & Llorente, 2013; Penuel et al., 2012). Such resources often provide access to dynamic, multi-sensory representations of concepts, places, or people that otherwise would not be practical (or, sometimes, possible).

Specific components of these resources that have been positively associated with learning include the following.

- Children can be intrinsically interested in and motivated by media and technology experiences, and this increased motivation is associated with deeper engagement and processing (Renninger, 2000).
- The education potential of these resources has been shown to be more beneficial than media in general, with the strongest effects on academic and social outcomes associated with resources that are pedagogically designed (Anderson et al., 2000).
- Children tend to form positive parasocial relationships with characters in media that can make them powerful resources for learning (e.g., Jennings et al., 2008; Linebarger & Piotrowski, 2006; Richert, Robb, & Smith, 2011; Schiappa et al., 2007).
- Resources tend to represent essential concepts and content as integral to the advancement of narratives and story lines in ways that support attention and benefit learning (Fisch, 2004; Linebarger, Kosanic, Greenwood, & Doku, 2004).
- Resources contain models of behavior, including ways of thinking, talking, and cooperating, that can be powerful templates for children and adults (e.g., Troseth, Saylor, & Archer, 2006).
- Some resources, especially games, often provide feedback to children and invite their active response, while other resources, like video, especially when mediated by an adult, invite questioning, which can support engagement and learning. (Anderson et al., 2000; Crawley et al., 2002).

Joint Engagement with Media

Beyond the affordances for learning described above, joint engagement with media and technology has been shown to be a catalyst to children's learning (Fisch et al., 2008; Stevens & Penuel, 2010; Takeuchi & Stevens, 2012). Joint engagements with media include planned experiences in which adults and children interact with one another while simultaneously attending to a media artifact. Joint media engagement can occur in a variety of media and technology contexts, such as viewing a video, reading a digital book, or playing a game on a mobile device. Past research has described how joint media engagement can provide powerful affordances for learning, above and beyond what the media resources may support through solo engagement (Moorthy et al., 2013; Media and Learning Group at SRI Education, 2010; Stevens & Penuel, 2010; Takeuchi & Stevens, 2011). The literature on joint media engagement has mostly focused on parental mediation of television viewing (Austin, 2001; Fisch et al., 2008; Reiser, Tessmer, & Phelps, 1984; Valkenburg, Krcmar, Peeters, & Marseille, 1999; Warren, 2005). This study aims to advance this line of research by identifying the extent to which families use mediation strategies and promote interactions that increase the opportunity to learn in the moment.



PBS KIDS PEG+CAT Intervention

The content included in the PBS KIDS PEG+CAT 12-week intervention provided children with repeated opportunities to engage with a set of early math experiences. Researchers organized the resources into a spiraling experience where children had the opportunity to explore new content and skills while also circling back to repeat familiar experiences and skills, giving them the opportunity to build on past successes while challenging them with new content.

After a detailed review of the available *PEG+CAT* resources (broadcast episodes and interstitials, and available games), the research team identified assets that had the greatest potential for promoting the development of particular mathematical concepts and skills. Those assets were organized according to their mathematical focus and strength to fit within the 12-week parameter of this study. The design process took into account only mathematics content, but following the selection and organization of the assets, researchers then noted any specific ATL skills that the selected assets addressed. (See <u>Appendix I: PEG+CAT Resources Included in the Intervention</u> for a list of the individual *PEG+CAT* resources included in the intervention.)

Focal Mathematical Skills

The PBS KIDS *PEG+CAT* intervention at the center of this study focused on patterns, geometry (e.g. 3-D and 2-D shapes, spatial relationships), measurable attributes, ordinal numbers, and, to a lesser degree, on the foundational skill of counting, which is present throughout all *PEG+CAT* materials. While all children are capable of learning skills and concepts in these four domains, these topics are typically less present in preschool curricula and are not as commonly supported by parents. As such, these target skills were especially suitable for this study, given that children are less likely to experience external support for developing knowledge of these concepts in the course of their day-to-day experiences.

- 1. **Patterns:** a focus on auditory patterns (e.g., Beethoven playing the first notes of his Fifth Symphony), physical patterns (e.g., the dinosaurs' step-step-jump), and visual patterns (e.g., the diagrams of short-short-long wursts).
- 2. Geometry (2-D and 3-D Shapes): some focus on 2-D shapes, such as squares, circles, and triangles, and a focus on 3-D shapes, such as spheres, cubes, and pyramids. These 3-D shapes may be less familiar to preschool children, but are appropriate content for their developmental level.
- **3.** Ordinal Numbers and Counting: a strong focus on ordinal numbers, words like "first (1st)" and "third (3rd)" that indicate position as well as counting.
- 4. Measurable Attributes and Spatial Relationships: a focus on length, height, weight, balance, and relational concepts, like prepositions describing positions in space (e.g., below, in between).

Designed Engagement

The PBS KIDS treatment condition was a designed series of 12 approximately 30-minute opportunities for children and their families to engage and interact with *PEG+CAT* resources. It was not a curriculum supplement used in formal daycare settings like those used in past *Ready To Learn* efficacy studies (Pasnik & Llorente, 2013; Penuel et al., 2012). The time and intensity of each interaction was dependent on the child's interest and motivation, and the availability and motivation of parents. Each of these opportunities represented a chance for children to engage with mathematics and ATL skills, further explore and deepen existing understandings of these skills, and/or refine emerging skills through application and practice, as often as possible in collaboration with a knowledgeable adult or sibling.

Key Features

Families in the treatment condition received the PBS KIDS PEG+CAT intervention, which included the following elements.

- Each of the 12 weeks consisted of an average of 30 minutes of curated content, organized into a recommended sequence of activities, and 30 minutes of suggested additional material.
- The first four weeks of the 12-week experience focused on one skill each: ordinal numbers; patterns; shapes; and measurable attributes and spatial relations. The activities were selected to capitalize on the excitement and energy of the start of the study with the aim of establishing strong exposure to math content in the first month.
- The remaining eight weeks spiraled through the four target skills, within and across weeks.
- Each week was designed to be an "adventure," including one or more full episodes, short video clips, one or more games, interstitials and/or a hands-on activity. The first four adventures were designed to cover a single skill, with the remaining eight adventures covering two to three skills in a spiraling fashion.
- As much as possible, all adventures aligned to focal ATL skills—problem solving, self-regulation, and perseverance—that are common elements of the *PEG+CAT* narrative.
- In addition to video and app content, the research team integrated a range of PBS KIDS online and hands-on activities into the intervention to encourage families to extend *PEG+CAT* into their daily lives.

Mediation: Planned Joint Engagement

Parents/caregivers in the PBS KIDS *PEG+CAT* treatment condition were asked to engage with their children before, during, and after interaction with study resources. Specifically, researchers asked parents to: (1) be present with their children during media and technology interactions, as much as possible; (2) approach these interactions with the goals of helping children learn, share what they know, and learn something new together; (3) talk with children, asking questions and making observations to learn how they are understanding the experience, where their interests are focused, and difficulties or challenges they may be having; (4) help children make connections between media and other experiences at home, at school, and in the community; and (5) help children apply and extend their learning and further explore their interests by repeating activities and by engaging in new experiences with and without media and technology.

Support for Families

As with the curated resources themselves, only supports that could be delivered at scale by public media organizations were included as part of the intervention. At the start of the study, researchers provided families in the PBS KIDS *PEG+CAT* condition with an orientation to study materials and learning objectives (focal skills). Support materials for parents/caregivers were designed to provide modest guidance and support for engaging with study experiences on an ongoing basis through print and/or online video resources.

Rather than prescribe additional media and technology experiences for families, the study asked treatment condition families to change the focus of their viewing and play activities to *PEG+CAT* and the focal skills of the experience. Therefore, in addition to the designed adventures, suggested supplemental materials were provided to facilitate further and deeper engagement with the mathematical skills introduced in *PEG+CAT*, especially as dictated by the child's interests. The supplemental materials were drawn from *PEG+CAT* as well as from other PBS KIDS resources, and consisted of activities that use materials easily accessible to most families.

Parent mediation support materials were delivered to families through

- Four short tip videos for parents, available in English, Spanish, and Mandarin Chinese, that focused on co-viewing media with their child (two videos on Watching and Playing Together), engaging in and supporting their child's use of math talk (Math Talk), and developing and supporting their child's problem solving and persistence skills (Supporting Problem Solving); and
- A printed Experience Guide to help parents navigate the study experience. Included in the Experience Guide was information about the study and the digital resources, and the weekly adventure schedule. In addition, the guide provided parents with information about the basic math concepts their children encountered when engaging with PEG+CAT resources, including ordinal numbers and counting; patterns; 2-D and 3-D shapes; and measurement and positional skills. The guide also included printed versions of the tip videos, a calendar of important study dates, and technology troubleshooting information.



An example of a video tip for parents from the project website

Study Website

A study website, ReadyToLearn.edc.org, was created to provide families with a simple and convenient way to access the *PEG+CAT* resources included in the 12-week study experience. (See <u>Appendix J</u> for an image of the study website.) The website provided access to full video episodes that presented a challenge or problem that Peg and Cat

must resolve, video clips and interstitials that introduced a concept or activity in a short video segment, games that related to the chosen math content for that week, and related hands-on activities for children to complete with their caregiver. For each week, parents and children were provided several icons indicating that week's activities. While the icons and activity choices varied from week to week based on the sequence of that week's adventure, a consistent set of parent tip videos designed to support parents' engagement with digital media and young children were called out in Weeks 1–4 and remained available throughout the experience. Families also received a poster-sized Weekly Adventure Schedule (designed to be hung in an easily accessible location such as on a kitchen wall or refrigerator) that used child- and adult-friendly graphics to indicate the study activities for each week and visually corresponded to how each week of the study was presented on the study website. (See <u>Appendix K</u> for an image of the Weekly Adventure Schedule Poster.)

Technology

To support engagement with the media experience throughout the study period, the research team provided each family in the treatment condition with the following. (See <u>Appendix L</u> for an image of the tech set-up.)

- 1 Internet-enabled 14" Chromebook laptop, including charger and hard case
- 1 Internet-enabled 8" Android tablet, including charger and soft case
- 3GB of data per month on a 4G broadband network for each device
- Access to all of the PBS KIDS intervention resources via the study website
- A bag for transporting and storing all study materials

Researchers considered a number of factors when selecting study technology (e.g., screen size for co-viewing, device set-up, back-end data collection) and conducted testing of *PEG+CAT* content on multiple devices. To provide families with the necessary technology tools required for the transmedia-rich experience, which included multiple platforms (e.g., Flash, HTML5, tablet), and to ensure full and smooth implementation, the research team used a two-device approach so that all resources could be accessed by all participants. Participating families received the larger-screened laptop with the intention of supporting co-viewing, and the smaller-screened tablet with a standing case for hands-free viewing and engagement with the *Big Gig* app. Internet access was a critical piece of the study, as families needed a stable and strong connection to access the transmedia on the study webpage. The software configuration options of the two devices allowed researchers to limit access to certain applications and to track usage on the back end. Researchers took into consideration the lifespan of potential devices and productive usage after the study when making final decisions about devices to distribute to families, choosing devices that provided families with 200 MB of data for the life of the devices. Before the devices were redistributed at conclusion of the study, PBS KIDS and the study websites were bookmarked on each device, and all families were given access to the *Big Gig* app.

The tablets included an app usage tracker, which helped researchers collect data on the number of times the *Big Gig* app and other apps were accessed. The research team also locked the tablet into landscape mode to give families a better viewing experience. Certain apps on the tablet were switched off to limit distraction from the intervention, including the following: camera, Amazon, Connect Me, contacts, Dropbox, email, all Google apps (except Chrome browser), Kids Mode, text messages, Samsung apps, and YouTube.



Implementation

The study took place over a 12-week period during the winter of the 2014–15 academic year, and was enacted principally in family homes. Components that took place outside the home included orientation meetings with parents, assessments with children, check-in meetings with parents, and a final wrap-up meeting with parents. Some families volunteered to participate in focus group conversations that also took place outside the home. The majority of these activities took place in the daycare or preschool settings where participant children attended early learning programs and from which families were recruited for the study; a few activities took place in nearby community-based centers and in researchers' offices.

Participant Experience

Researchers employed a series of strategies to ensure that families had access to the information they needed to participate fully in all study activities. Once enrolled, researchers communicated with families regularly in order to support study participation and data collection. Because PBS KIDS families received a math tip text message each week and technology support as needed, researchers communicated with PBS KIDS families slightly more than with business as usual families.

Parent Meetings

During the study, researchers held three meetings with families in both the business as usual and PBS KIDS treatment conditions, including an initial "kick-off" meeting to introduce parents to the study, a midpoint meeting to check in with parents and collect interim study data, and a final meeting to wrap up the study and data collection and provide families with cleaned technology to take home.

The initial kick-off meetings were held separately for business as usual and PBS KIDS families. At all family meetings, researchers introduced families to the researchers, the purpose of the study, the study timeline, and data collection procedures. Families also completed the parent pre-surveys during this time. Families assigned to the PBS KIDS condition were provided with a tablet and laptop and intervention materials, along with guidance about how to use the technology and the PBS KIDS intervention and study website. Additionally, meals and travel stipends were provided for families who attended the kick-off meetings. All families who attended the kick-off meetings enrolled in the study, with the exception of one parent who was not proficient in reading English, Spanish, or Mandarin Chinese (a requirement of participation in the study, as outlined in the study consent form).

Researchers held makeup meetings individually and in small groups with families who were unable to attend the kickoff meetings. The kick-off meetings were held at preschools with Bay Area families and at EDC's office with New York City families.

At approximately the midpoint of the study (between weeks 4 and 6), researchers organized a second meeting with families to check in and answer any questions that families might have about the study, collect weekly media diaries from weeks 1–6, if completed, and distribute media diaries for weeks 7–12. In addition, PBS KIDS families brought their tablets to the meetings so that researchers could download usage data. For those families who had not yet completed their media diaries, researchers made plans to retrieve completed media diaries, by having parents drop the diaries off with a teacher, bringing the diary to researchers, or mailing the diary to researchers. Researchers held both New York and Bay Area family meetings at preschool or community centers, where parents could meet one-on-one with researchers during 90– to 120–minute windows scheduled around the time that parents picked up their children from school.

Project staff held the final study meetings at preschool centers, with the exception of one Saturday meeting in New York that took place at a church community center (when preschools were closed). The goals of the final meeting were (1) to collect media diaries, (2) to collect parent post-surveys, (3) to collect, clean, and redistribute technology to families, and (4) to solicit feedback and thank families for their participation.

Weekly Text Messages

At the kick-off meetings, parents had the opportunity to opt-in to receive text messages during the study. The majority of the sample (167 families, including 73 in New York and 94 in San Francisco) opted to receive text messages. There were two types of weekly text messages that parents received: (a) content-related tips, which were sent to PBS KIDS parents, and were designed to encourage parents to incorporate math into their child's daily life, use the joint engagement tips provided as part of the study, and keep *PEG+CAT* fresh in their minds; and (b) media diary reminder texts, which were sent to both the PBS KIDS and business as usual group parents on the designated media diary entry day for that week to remind parents to complete their weekly media diary.

Other Contact with Families

Apart from scheduled text message reminders for media diary entries, researchers used phone calls, text/email messages, letters, and teacher communication as additional ways to stay in touch with families. Contacting families through these means enabled researchers to encourage family attendance at meetings, learn about families' experiences with study materials, and address questions or concerns. These four channels of outreach were intended to be convenient and respectful of families' busy schedules and access to resources. In general, researchers were able to reach families by phone and/or text, with very few exceptions.

Technology Set Up

All the devices were delivered to PBS KIDS families during the first kick-off family meeting. During the kick-off family meeting, researchers gave a walk-through to treatment families on how to use each device. This included showing families how to turn on/off both the laptop and tablet, charge each device, control volume, and log in to the laptop. (There was no log in required for the tablet.) Researchers also showed families how to navigate to and around the study website, including showing them how to access the different areas of the study experience—the videos, games, interstitials, and parent tip videos—on both the laptop and tablet. Additionally, researchers showed families how to navigate to the *Big Gig* app on the tablet.

All families in the treatment group received a study experience guide, which also included basic information about laptop and tablet use as well as tips for troubleshooting common technology challenges.

The research team provided families with their contact information should they have ongoing technical difficulties, and all families left the kick-off meeting with their devices, chargers, and cases in a single technology bag.



Methods

This section includes a description of measures, data collection, and analysis approaches associated with (1) child learning outcomes, (2) parent/caregiver outcomes, and (3) family engagement (i.e., how children and families took up the *PEG+CAT* media experiences).

Measures

Child Learning Outcomes: Mathematics and Approaches to Learning (ATL)

To assess children's mathematics outcomes, a team of researchers with experience in early learning and assessment developed and administered a set of assessment items aligned to the skills addressed in the *PEG+CAT* intervention, but not to the resources themselves, to avoid over-alignment and to ensure proper assessment of impact given the intervention focal skills. The decision to develop assessment items that aligned to the math skills to which children were exposed, as opposed to the intervention's specific and resource-based representation of these skills, allows for stronger claims to be made regarding children's performance on these tasks.

To assess children's ATL skills, the team administered the Preschool Learning Behavior Scale (PLBS; McDermott, Green, Francis, & Stott, 2000), a validated teacher measure of young children's classroom learning behaviors that was developed in partnership with preschool teachers for use in low-income samples. In addition, the research team developed and administered the Math Concepts and Problem Solving checklist (MCPS), a short teacher measure of children's understanding of the intervention's focal skills as well as their ability to apply mathematical skills in their everyday life and when solving problems.

Child Assessment of Target Mathematic Skills

As described above in the Intervention section, researchers curated and identified the media resources that made up the intervention, including full episodes, games, episode clips, interstitials, and at-home hands-on activities. Once these resources and the primary math skills they targeted had been identified, the assessment team conducted an empirical review of early mathematics (e.g., Clements & Sarama, 2004; U.S. Department of Health and Human Services, 2010) to determine what developmentally appropriate subskills fell within the intervention's targeted math foci. Based on this review and comparison, the assessment team created a conceptual map that listed the mathematical concepts addressed or promoted in the selected resources. This document listed focal skills (the targeted focal skills in each

asset), secondary skills (the secondary focal skills present in each asset), and subskills (the finer grained elements of each focal skill present in each asset). The focal skills identified included patterns, 2-D and 3-D shapes, measurable attributes and spatial reasoning, ordinal numbers, and counting.

After the above-mentioned analysis of the mathematical focal skills and subskills targeted by the intervention, the assessment team conducted a review of the existing standardized and validated early childhood math measures (for example, the REMA, TEMA, EMAS) to determine whether they aligned to the intervention's targeted skills. The results of this review indicated that the existing measures attend to math skills more broadly and are meant to be assessments of general math ability. Accordingly, they contain questions on a wide variety of skills, as opposed to including subscales that focus on more targeted areas of mathematical learning. Despite the fact that these early learning math skills are considered to be developmentally appropriate and fundamental, the existing measures do not include subtests that focus on specific skills such as ordinal numbers, patterns, and 2-D and 3-Ds shapes, and therefore were thought to be not sensitive enough to detect learning in these sub-domains of mathematical learning.

Concluding their review of existing measures, and with the conceptual map as a guide, assessment team members began the item creation process based on early mathematics literature (i.e., developing items that assessed the target skill in ways documented in the literature) and modeling the format used in the existing and validated early childhood mathematics assessments. Items involved game-like activities that require assessors to read a verbal prompt and children to provide a verbal response, point, or engage with manipulatives. Subgroups of team members created items for a given skill and brought them back to the larger assessment team for review, discussion, and iteration. This process aimed to ensure that the items (a) adequately assessed the target skills, (b) included a variety of developmentally appropriate item formats, (c) adhered to universal design principles, and (d) varied in terms of difficulty.

Once all the items had been reviewed and revised using the above criteria, the team worked with an expert graphic designer to find or generate developmentally appropriate images to create an assessment flipbook. The team ensured that the prompts were written in a developmentally appropriate manner, and a copy editor reviewed them to ensure they had stylistic uniformity. Finally, the team created or purchased developmentally appropriate math manipulatives for specific questions.

After the assessment flipbook and manipulatives were developed and curated, the team pilot-tested the items with approximately 10 children in a preschool classroom similar to those recruited for the study. During this pilot administration, team members noted any difficulties related to item administration as well as the children's engagement and responses, to determine if items were too hard or too easy and whether responses included expected outcomes.

Findings from this pilot administration informed further revisions. Revised items then were shared for review with early childhood and mathematics researchers outside of the immediate assessment team. Once feedback was obtained, additional edits were made and the assessment was prepared for use in the study.

Data collection: Child assessments. Trained assessors administered the mathematics assessment items to all children participating in the study prior to and after the intervention period. Training was conducted over two days, and assessors were trained on conducting assessments with young children (for example, the importance of establishing assent and rapport) as well as on the administration and scoring of the assessment specifically. At the end of the second day of training, all assessors attained reliability (90% or above) with one of the lead trainers and developers of the assessment.

Teacher Rating Scales of Learning and Behavior

In addition to collecting assessments from children, researchers also collected teacher reports of children's mathematics learning and ATL skills. Teacher reports hold a few advantages for assessing child behavioral outcomes in particular because teachers are able to observe their students' behavior and generalize over time, compared to a one-time researcher-administered assessment that may capture behavior relevant for only a specific situation.

Preschool Learning Behaviors Scale

To assess children's ATL skills, such as motivation, persistence, attention, and attitude toward learning, participating classroom teachers completed the Preschool Learning Behavior Scale (PLBS; McDermott et. al., 2000), a measure that was developed for use with low-income young children in collaboration with Head Start teachers. This instrument asks teachers to report the frequency (e.g., "most often applies," "never applies") with which children exhibit certain behaviors associated with ATL skills, such as the ability to cooperate in a group activity or evidence of determination in completing a task or activity. Items for each of the three factors in the PLBS are summed to create subscale scores, which are then aggregated into a total raw score. Total raw scores are then converted into T scores (M=50, SD=10) based on the national standardization sample. The Cronbach's alpha coefficient for the total score in the study's sample was 0.85, indicating adequate internal consistency. Convergent and divergent validity for the PLBS has been established with measures of receptive and expressive language (Dunn & Dunn, 1997; Gardner, 1990), social skills at school and home (Fantuzzo, Coolahan, Mendez, McDermott, & Sutton-Smith, 1998; Fantuzzo & Hampton, 2000), and self-regulation (Block & Block, 1980).

Math Concepts and Problem Solving Checklist

The research team developed the Math Concepts and Problem Solving checklist (MCPS), a short teacher measure of children's understanding of the focal skills within the intervention, as well as their ability to apply their understanding of these mathematical concepts in their everyday life and when solving problems. This measure contained eight items and was modeled after the PLBS in that teachers were asked to report the frequency (e.g., "most often applies," "never applies") with which children exhibited an understanding of these mathematical concepts and problem-solving skills. During a brief introductory meeting with the study team, teachers were provided basic instructions on how to complete the MCPS measure.

Data collection: Teacher scales. As part of their participation in the study, teachers of children in both conditions were asked to complete a PLBS and MCPS checklist before and after the study. Teachers were provided basic instructions on how to complete the PLBS form. For the MCPS measure, teachers were provided brief guidance on the included mathematical concepts and problem-solving skills, as well as examples of instances where children could exhibit evidence of these skills in their respective classrooms. Teachers completed the PLBS and MCPS at pre and post for most children. See Table 2 for a detailed breakdown.

Table 2. Study Data Sources

	Number of participants	Number of times administered/ reported	Timepoint administered/ reported
Outcome data			
Child assessment of target mathematic skills	Pre: 228 children Post: 190 children	2	Week 1 Week 12
Teacher rating scales • Preschool Learning Behavior Scale • Math Concepts and Problem Solving checklist	Pre: 234 children Post: 188 children Pre: 233 children Post: 188 children	2	Week 1 Week 12
Parent surveys	Pre: 196 parents Post: 188 parents	2	Week 1 Week 12
Engagement data			
Parent/caregiver media diaries	201 families	12	Weekly for 12 weeks
Home visits	20 families (10 PBS KIDS and 10 business as usual families)	2	Weeks 4–6 and Weeks 8–10
Parent/caregiver focus groups	20 parents/caregivers, across both PBS KIDS and business as usual families	1	Week 12
System log data • Google analytics • Tablet App tracker	100 PBS KIDS families 96 PBS KIDS families	2	Across study period

Parent/Caregiver Outcomes

Parent/Caregiver Survey

All parents/caregivers participating in the study completed surveys at the beginning and end of the study period. Researcher developed survey items that emphasized parents'/caregivers' attitudes, beliefs, and behaviors related to: (1) media and technology use at home, including the frequency, purposes for, and social arrangements in which families use media in the home; (2) early mathematics, including home math talk and the informal ways in which parents support children's mathematical skills through home-based activities; and (3) children's approaches to learning, including problem solving and persistence. Additionally, the survey that parents completed at the beginning of the study included questions related to parents' and family background, such as home language, ethnicity, parents' educational background, family income, etc.

Data Collection. Parents/primary caregivers from all participating families were asked to complete the survey during the kick-off and final family meetings. The surveys were administered in pencil-and-paper format (surveys were later scanned for analysis), and were available to families in English, Spanish, and Mandarin Chinese. Parents/caregivers completed the survey before and after the study for most children. See Table 2 for a detailed breakdown.

Family Engagement

The research team used four integrated data collection activities to document the enactment of the *PEG+CAT* experience among families in the PBS KIDS condition, and to describe the contrasts related to media use and early mathematics/ approaches to learning observed between families in the PBS KIDS and business as usual conditions respectively. These comprise analyses of weekly media diaries, home visits, focus groups, and system log back-end data.

Media Diaries

All parents/caregivers in the study sample, including both PBS KIDS *PEG+CAT* and business as usual conditions, were asked to complete weekly media diaries, which were logs of media and technology use for all 12 weeks of the study. The media diaries for the PBS KIDS condition asked about children's uptake of the *PEG+CAT* intervention, including the *PEG+CAT* resources accessed each week, children's reactions to the resources, the social configurations (e.g., individually, with parents, siblings, and other children) in which children accessed the resources, parents' activities while children were accessing the resources, and the approximate amount of time children spent with the resources. Additionally, parents/ caregivers also documented the extent to which they followed the recommended sequence of activity for each week, their use of the family support materials, and any challenges they encountered while enacting the intervention.

Media diaries for the business as usual families gathered comparable information about families' media use. Specifically, parents documented the extent to which business as usual children engaged with video and digital games at home, the purpose for using media, children's reactions to the media and technology to which they were exposed, the social arrangements for media and technology use, including the extent to which children and parents/caregivers participate in joint media use, and parents' activities at the time of children's media use.

Data collection. Families in both PBS KIDS *PEG+CAT* and business as usual groups were asked to complete media diaries once a week, for the duration of the study. The days on which families completed the diaries rotated across the 12 weeks of the intervention. During the kick-off meetings for both groups, researchers reviewed the media diaries to explain the prompts and provided directions for parents on how to complete the diaries. In order to facilitate data collection and enhance the response rate, questions included in the media diaries were simple and easy to complete. The research team provided weekly reminders through text messages to families to complete the diaries (for families who opted-in to receive text messages).

Because of recruitment challenges, West Coast and East Coast families participated in the study on a slightly different schedule from one another, with up to two weeks separating the schedule of implementation. This altered the approach to Media Diary collection across locations. Families in the New York City area were asked to return their weekly media diaries during the midpoint check-in meeting, even if they had not completed all six weeks of activities. If a family had only four weeks of their media diary completed, then researchers accepted the four completed weeks and gave families a set of diaries for the remaining number of weeks left in the study. Families were provided with addressed and stamped envelopes to return diaries as they were completed for later weeks. Families in the San Francisco Bay Area were encouraged to leave completed media diaries in bins provided in children's classrooms, and researchers collected these on a regular basis. Despite variations in the Media Diary collection strategy, the research team collected 97% of midpoint media diaries on the East Coast and 93% on the West Coast.

Home Visits

In order to gather qualitative information about patterns of media use, the research team conducted home visits with a subsample of families. The goal of home visits was to collect contextual information about when and for what purposes children and their families accessed media content, the social arrangements in which media was used, and what kinds of obstacles or supports were encountered when children and their families engaged with these media. Data gathered from the home visits also emphasized how families in the PBS KIDS condition engaged with the overall *PEG+CAT* intervention, as well as individual resources, and the extent to which the patterns of engagement and behavior observed among PBS KIDS families differed from those of business as usual families.

Data collection. The home visit sample comprised 20 families (10 each from the PBS KIDS and business as usual conditions, distributed across New York and California). Researchers identified families for the home visit sample based on their responses to specific items related to their technology and media use on the survey conducted at the beginning of the study. As such, the home visit sample included families who engaged frequently in a variety of media experiences as well as those who were, by their own report, not prolific users of media or technology. The families included in the study sample represented a diverse group (see <u>Table A1. Race/Ethnicity of Home Visit Families</u> in Appendix A).

Each family in the home visit sample received two visits. The purpose of the first visit was to speak with families about how they used technology and media, including the extent to which parents/caregivers participated in media use with their children and the types of interactions that occurred among families during media experiences. The first visit took place during weeks 4–6 of the study and lasted approximately 60-90 minutes. During the second visit, which took place about 4–6 weeks after the first visit, researchers gathered additional information about families' media use and observed children and families engage in media experiences. The second visit took place during weeks 8–10 and was about 45 minutes long. All but one of the 20 families participated in two home visits. Visits were conducted in English (14), Spanish (5) and Mandarin Chinese (1). Researchers' discussions with families were audio-recorded.

Focus Groups

Data collection also included a number of focus groups conducted at the end of study with a subsample of participating families. The goal of the focus group discussions was to gather opinions related to media and technology use, and how media can be used to foster children's development of mathematical and ATL skills. In addition, the focus group interviews also provided an opportunity to gather information from PBS KIDS parents regarding their views of the *PEG+CAT* resources and their experience of participating in the study.

Data collection. Family focus groups took place during the final family meetings. Researchers conducted a total of eight focus groups with 20 families, including four focus groups with PBS KIDS families and four with business as usual families. Researchers recruited participants based on their reported level of family media use on the preprogram survey, prioritizing families who reported high levels of technology access and use. Focus groups were conducted in English, Spanish, and Mandarin Chinese. During each focus group, one researcher facilitated the discussion (with the help of an interpreter, if required), while another researcher took notes to capture the discussion. Focus groups also were audio-recorded.

System Log Data

In order to track participant's access to the *PEG+CAT* content during the study, researchers configured the study's website and third-party applications installed on devices to log participant usage and engagement with the media and technology resources. Researchers, with the appropriate user account permissions, accessed data logs during the study and retrieved locally stored records during the midpoint and final parent meetings. Because the study's website was built on Drupal, an open-source content management system platform, it provided participants with access to the intervention sequence resources as well as to supplemental resources, publishing each resource with a unique URL, regardless of whether the media resource was listed more than once during the 12-week period. This enabled researchers to distinguish among content across the 12-week sequence.

Data collection. The Google Analytics Module 6.x-2.2 was enabled on the Drupal CMS, which added a Google Analytics JavaScript tracking code to all of the study's webpages. Data collected via Google Analytics includes the user identification number unique to each family, page title, URL accessed, the date and hour the page was accessed, and operating system used to access the page (i.e., the tablet Android operating system or laptop Chrome operation system) for each page visited on the *PEG+CAT* experience study website. In addition, by using the App Tracker app, which was installed on each tablet, researchers were able to track which apps families used. The application data for each tablet included the name of the tablet app used, date, hour, and minute when the app was opened, and duration of use, measured as the amount of time the app was in foreground on the tablet, from the time it was launched until it went into the background or the tablet was locked.

Data spanned the day after treatment families received their technology devices to the last day of the prescribed study period. Google analytics data were obtained for 100 (99%) families in the treatment group, and app data were obtained for 96 (95%) families in the treatment group. One family, who dropped from the study after enrolling, did not have either Google analytics or tablet app usage data. An additional four families were missing tablet app usage data either because they disabled the app usage tracker installed on the tablet or because the tracker failed to operate correctly.



Analytic Approach

Child Outcomes

Child Assessment Reliability

To analyze the child assessment data and examine item functioning, researchers conducted a one-parameter (1PL) Item Response Theory (IRT) analysis using IRTPRO 2.1(Paek & Han, 2012). Findings from this analysis indicated that a unidimensional model does not fit the data well. Unfortunately, given constraints due to sample size, the research team was unable to fit a multidimensional IRT model to the data. However, in order to further investigate the multidimensional structure of the data, researchers conducted a series of factor analyses using MPlus Version 7 (Muthén & Muthén, 2012). More specifically, the research team conducted Exploratory Factor Analysis (EFA) using the pretest assessment data and subsequently conducted Confirmatory Factor Analysis (CFA) using the posttest data. To examine item functioning, researchers examined factor loadings and discrimination values in conjunction with qualitative data regarding item performance, removing five items based on this information. For each of the resulting factors, researchers calculated a raw score and converted it into a T score (with a mean of 50 and standard deviation of 10) for ease of interpretation. The research team also calculated Cronbach's alpha coefficients to examine internal consistency and factor correlations to examine discriminant validity, both using SPSS 19 (IBM Corp., 2010).

Child Learning

To examine the promise of the PBS KIDS PEG+CAT intervention in improving young children's mathematics learning, the research team conducted a series of multilevel models using the Stata software environment (Version 13) and the mixed command using full maximum likelihood estimation. Even though randomization occurred at the child-level, multilevel analyses were fit to account for the nested structure of the data (children nested in classrooms and classrooms nested in centers) because children were recruited from and were enrolled in preschools during the duration of the study. Researchers started by running unconditional models for each of the three factors in order to partition the variance in the outcome (posttest assessment scores) at the child, classroom, and center levels. The research team then included pretest scores, demographic covariates, and the condition variable as predictors at the child level. The full specification of the multilevel models is in Figure 5. The coefficient b_1 is estimated in the score point metric of whatever assessment is being fit within the model.

$Posttest_{ijk} = \beta_0 + \beta_1 Itreatment_{ik} + \beta_2 X_{ijk}$	+ β_3 Pretest ^(GMC) -	+ $\beta_4 Age_{ijk}^{(GMC)}$	$+ e_{ijk} + r_{jk} + U_k$
--	--	-------------------------------	----------------------------

Where

Posttest_{in}.....is the posttest score for student *i* within classroom *j* and center k

- β_{o}is the intercept and estimates the expected posttest score given a mean score on the pretest in the control condition
- β_1is the estimate of the difference in expected posttest scores between the treatment and control conditions
- $I_treatment_{k}$is an indicator for the treatment condition (1 = treatment, 0 = not treatment) of classroom *j* in center *k*

 X_{iik} are dichotomous covariates for student *i* within classroom *j* and center *k*

Pretest in the pretest score for student i within classroom j and center k, grand mean centered

Age_{iik}.....is a covariate for student *i* within classroom *j* and center *k*, grand mean centered

 e_{iik} , r_{ik} , u_kare random error terms at the student, classroom, and center levels, respectively

Figure 5. Model Specification for Main Impact Model

Finally to examine the potential moderation by pretest scores, researchers entered a moderator term (pretest x condition) into the model, at the child level. Findings from this model were examined to determine whether children with lower or higher pretest scores were more likely to benefit from the intervention. Analyses also incorporated parent survey and system log data as covariates in the models, including demographic characteristics and engagement with study resources.

Teacher Ratings of Child Learning

Teacher data about children's mathematics learning, gathered via the Math Concepts and Problem Solving scale were examined at the item level by conducting two-sample Wilcoxon rank-sum/Mann-Whitney tests (Wilcoxon, 1945). The Mann-Whitney hypothesizes the two independent samples (intervention and control groups) are from populations with the same distribution. The null hypothesis is that both distributions are the same. Each pair is assigned a numeric rank, 1 being the smallest and a rank equal to the midpoint for ties. The observation ranks are summed from one of the samples and compared to the second sample.

Child Approaches to Learning

To examine the promise of the PBS KIDS *PEG+CAT* intervention in promoting adaptive approaches to learning, researchers conducted multilevel models using PLBS data and followed the same process as for the child assessment data (described above).

Parent/Caregiver Outcomes and Family Engagement

Descriptive Analyses

To examine the quantitative data collected through media diaries, surveys, and system-log data regarding parent outcomes and families' engagement with technology, the research team conducted descriptive analyses by calculating frequencies and percentages for the binomial, categorical, and ordinal data, and means and standard deviations for the continuous data. To examine contrasts before and after the study and between the PBS KIDS and business as usual conditions, the research team conducted cross-tabulations and chi-square tests of independence. Researchers also conducted t-tests and one-way analyses of variance (ANOVA) analyses or Kruskal-Wallis tests to determine statistically significant relationships between technology use and family demographic characteristics. Researchers examined all open-ended questions to develop potential coding categories and then coded these questions to identify meaningful patterns that could inform findings.

Qualitative Analyses

Following each home visit and focus group, researchers completed a detailed data capture documenting information from interviews and observations (for home visits) and summarizing participants' responses to the questions (for the focus groups). The data capture forms were carefully analyzed by researchers to identify salient themes with regard to families' beliefs about and use of media and technology, patterns of joint engagement with the media, and families' reaction to the PEG+CAT intervention. With audio records, researchers were able to incorporate quotes from families relating to their media experiences in general and their experiences with the PEG+CAT intervention.



Summary of Results

Child Learning Outcomes

- Children who participated in the PBS KIDS *PEG+CAT* intervention exhibited statistically significant improvements in the mathematics skill areas of ordinal numbers, spatial relationships, and 3-D shapes as compared to children in the business as usual condition.
- Results suggest no differences between children in the PBS KIDS *PEG+CAT* and business as usual conditions in teacher ratings of children's approaches to learning and math concepts and problem solving.

Parent/Caregiver Outcomes

- Parents and caregivers in the PBS KIDS condition reported a higher frequency of joint parent-child technology use, more joint gameplay, and more conversation connecting digital media and daily life than did business as usual parents and caregivers.
- PBS KIDS parents and caregivers also reported significant increases in their confidence to support math learning for their children, as compared to business as usual families.
- Twice as many PBS KIDS parents and caregivers agreed that technology and media were tools for math learning (though, importantly, not for other subject areas), at the end of the study, as compared to the beginning of the study period. Comparison condition families, on the other hand, were unchanged in these views.
- A higher proportion of parents and caregivers in the PBS KIDS condition reported engaging in problem-solving strategies with their children at the close of the study than did parents/caregivers in the business as usual condition.

Families' Engagement with the Intervention

- Children used the *PEG+CAT* intervention media resources most often with their parents/caregivers, and parents in the PBS KIDS condition engaged in more joint media use with their children when compared to parents in the business as usual group.
- The majority of PBS KIDS condition families accessed intervention resources frequently, and many did so repeatedly, although there was considerable variation within the PBS KIDS condition with respect to individual families.
- PBS KIDS children accessed *PEG+CAT* intervention resources that exposed them to all of the target mathematical skills and, with less frequency, to all of the target ATL skills. Again, there was variability in frequency of access and limited data on length or quality of engagement with the resources within the PBS KIDS condition.
- PBS KIDS families reported finding the majority of the *PEG+CAT* intervention resources to be fun and engaging. Additionally, some parents expressed their appreciation that the resources provided their children with opportunities to practice math skills, while others found that the games and videos complemented each other in a beneficial way that made the content more meaningful.
- Most PBS KIDS families progressed through the intervention experience over the 12-week study period, regularly accessing newly sequenced resources each week. The majority of families diverged from the suggested sequence, and overall use of the resources steadily declined over the course of the study.
- While PBS KIDS parents found value in the support materials they were provided as part of the *PEG+CAT* intervention, actual usage of these resources varied. The majority of families reported the text messages they received as a part of the intervention to be helpful, practical, and useful, showing promise for the use of text messaging as a convenient and effective way to connect with families.



Results in Detail

Child learning outcomes and outcomes for parents/caregivers resulting from the study experience are presented below, followed by findings highlighting how PBS KIDS families engaged with the *PEG+CAT* intervention resources.

Child Learning Outcomes

The child learning outcomes are based on the mathematics and approaches to learning assessments described in the Methods section.

Highlights

- Children who participated in the PBS KIDS *PEG+CAT* intervention exhibited statistically significant improvements in the mathematics skill areas of ordinal numbers, spatial relationships, and 3-D shapes compared to children in the business as usual condition.
- Results suggest no differences between children in the PBS KIDS *PEG+CAT* and business as usual conditions in teacher ratings of children's approaches to learning and math concepts and problem solving.

Child Assessment of Mathematical Skill

Factor analysis. The research team conducted Exploratory Factor Analysis (EFA) on the pretest data, which revealed that a three-factor solution provided the best fit to the pretest data. (See <u>Appendix B</u> for detailed information regarding model fit.) Results from the EFA indicate that the items largely demonstrate adequate pattern coefficient "loadings;" there is generally one dominant factor that each item loads on; and each factor has a logical, substantive meaning based on the family of items that load on them. Table 3 below describes the mathematics skills measured by each factor.

Based on the three-factor solution suggested by the EFA, the research team carried out a Confirmatory Factor Analysis (CFA) on the posttest data. Findings from the CFA suggest that with no modifications, the model displayed good fit and confirmed the three-factor structure. (<u>Appendix A</u> provides detailed information regarding model fit. <u>Appendix C</u> includes difficulty and discrimination values for all items by factor, and <u>Appendix D</u> and <u>Appendix E</u> include findings from the EFA and CFA, respectively). The results of the weak factor correlations in <u>Appendix D</u> suggest that there is

Table 3. Math Skills Measured by Each Factor

Factor 1 (17 items)	Factor 2 (6 items)	Factor 3 (12 items)
Ordinal Numbers, Spatial Relationships, 3D Shapes	Measurable Attributes, Pattern Creation	Counting, 2D Shapes and Pattern Continuation
Measured young children's ability to order ordinal numbers, match ordinal numbers to cardinal numbers, identify the position/ location of an item and identify three- dimensional shapes using manipulatives.	Measured young children's ability to make comparisons based on measurable characteristics (e.g., shorter vs longer) and their ability to create patterns.	Measured young children's ability to count, identify two-dimensional shapes and their characteristics, and extend patterns.

evidence of discriminant validity among the three factors. The reliability estimates (Cronbach's Coefficient alpha) of the three subscales on both the pretest and posttest range from 0.65 to 0.84. (See <u>Appendix F</u> for Cronbach's alphas for each subscale at pre- and posttest). <u>Appendix G</u> includes descriptives for each factor by condition as well as for the full sample.

Multilevel models to examine evidence of promise. Across Factors 1, 2, and 3, a majority of the variance can be attributed to the child level, which is typical for preschool cognitive outcomes generally (Spybrook et al., 2011). Results from unconditional models indicate that approximately 89% of the variance in Factor 1 is attributable to child-level variation, while 3% and 8% is attributable to classroom- and center-level variation, respectively. Similarly, approximately 96% of the variance in Factor 2 is attributable to classroom- and center-level variation, while 4% and 0% is attributable to classroom- and center-level variation, while 4% and 0% is attributable to classroom- and center-level variation, while 4% and 0% is attributable to classroom- and center-level variation, while 4% and 0% is attributable to classroom- and center-level variation, while 4% and 0% is attributable to classroom- and center-level variation, while 4% and 0% is attributable to classroom- and center-level variation, while 4% and 0% is attributable to classroom- and center-level variation, while 4% and 0% is attributable to classroom- and center-level variation, while 4% and 0% is attributable to classroom- and center-level variation, while 4% of the variance is attributable to child-level variation, while classroom- and center-level variation each account for 1% of the variance.

Children who participated in the PBS KIDS *PEG+CAT* intervention exhibited statistically significant improvements in the mathematics skill areas of ordinal numbers, spatial relationships and 3-D shapes, compared to children in the business as usual condition.

Results from the main impact models indicate that children in the PBS KIDS condition improved significantly in the mathematical skills assessed by Factor 1—Ordinal Numbers, Spatial Relationships, and 3-D shapes—relative to children in the business as usual group (g (effect size) = .51, p < .000). For comparison, meta-analyses of education interventions find an average effect size of .44 SD on specialized focal mathematics tests such as the one used in this study (Hill, Bloom, Black & Lipsey, 2008), suggesting the intervention resulted in a substantive impact on learning, particularly given the brevity of the intervention. The condition variable accounted for 50% of the child-level variation (89%) in outcome (posttest assessment scores). No significant differences in learning between conditions were detected for Factor 2 (Measurable Attributes and Pattern Creation) or Factor 3 (Counting, 2-D Shapes, and Pattern Continuation; p>.05). Table 4 highlights the findings from the main impact models.

Table 4. Findings from Main Impact Models

Impact Contrast	N	Coefficient	Hedges g (Effect Size)	Std. Error	p
Factor 1: Ordinal Numbers, Spatial relationships and 3D Shapes	172	5.26	0.51	1.12	0.000
Factor 2: Measurable Attributes and Pattern Creation	180	-1.02	-0.10	1.06	0.336
Factor 3: Counting, 2D Shapes and Pattern Continuation	182	-0.40	038	1.00	0.689

Subsequent analysis into the back-end usage statistics of children and families who participated in the intervention indicated, as seen in Figure 6 below, that the resources targeting the mathematical skills contained within Factor 1 were accessed more frequently; specifically, they had more overall media views (which includes both games and videos) on average, compared to Factor 2 and Factor 3. Factor 1 also had, on average, more video views than Factor 2 and Factor 3. For games, however, Factor 3 had, on average, more views than either Factor 1 or 2. This indicates that the frequency with which specific resources were accessed may explain some of the differential findings observed for child outcomes. However, it is important to note that these usage statistics are limited in the information they provide, and therefore these findings should be interpreted with caution. For example, system log data indicate how often a member of a particular child's family visited a given webpage, but it does not indicate whether or not a video was viewed or a game was played and, if it was, for how long and under what circumstances and social arrangements or whether it was the child or someone else who viewed the video or played the game.

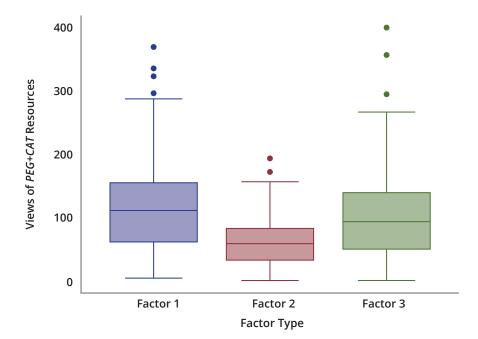


Figure 6. Family Number of Views of *PEG+CAT* Resources by Factor Type (*n*=100)

Teacher Scales

No significant differences were observed between PBS KIDS and business as usual conditions for either of the teacher scales—the Preschool Learning Behavior Scale (PLBS) or the Math Concepts and Problem Solving (MCPS) (see Tables 5 and 6 below). To a certain extent, this was not surprising. As the PLBS is a standardized measure, it was not directly aligned to the ATL skills within the study experience, which focused most frequently on self-regulation, persistence, and cognitive flexibility (i.e., strategies for calming down in order to maintain focus on a problem and trying a variety of problem solutions). Similarly, the MCPS was developed to align to the math content of the study but the ATL skills within it are largely generic; for example, highlighting working with others and applying knowledge in new situations. Furthermore, ATL skills are more dispositional than topical, meaning that they are ways of learning that apply across domains and situations, making them more difficult to change over a short intervention than a content skill such as knowledge of shapes. Moreover, the intervention "light" and, therefore, making it more difficult to impact this set of dispositional skills. Finally, fewer resources with ATL content than resources targeting math skills were viewed during the study, further exacerbating the "lightness" of the ATL intervention.

Within each episode of PEG+CAT, Peg encounters a series of three problems, each requiring her to count backwards to calm down and to work with Cat or another friend to discover a new strategy. In retrospect, it would be reasonable to hypothesize that a child might pick up the strategy of counting backwards to alleviate the frustration of not being able to solve a problem, and it might also be reasonable to hypothesize that a child could adopt the strategy of asking a peer for help in solving a problem. However, these very specific strategies were not covered in either of the more general ATL measures used in this study. Encouragingly, though, these strategies were noted in the home visits and focus groups, supporting the idea that using a more targeted and aligned ATL measure might have captured some of the changes in children's behaviors.

Scales	Pr	Pre		Post	
Scales	Mean	SD	Mean	SD	
PBS KIDS					
Motive	48.36	10.85	49.97	9.71	
Persistence	50.06	10.09	51.12	10.23	
Attitude	50.03	9.58	50.16	9.38	
Total Score	49.19	10.89	50.34	10.71	
Business as Usual					
Motive	49.49	9.48	49.38	10.05	
Persistence	49.33	11.15	50.99	10.39	
Attitude	50.78	10.19	51.26	10.48	
Total Score	49.65	11.11	50.29	11.1	

Table 5. Preschool Learning Behaviors Survey Scale Descriptive Statistics for the PBS KIDS (n = 98) and Business as Usual (n = 89) Groups

Table 6. Math Concepts and Problem Solving Survey Results for the PBS KIDS (n = 99), and Business as Usual (n = 89) Groups

	PBS KIDS (<i>n</i> =99)		Business as Usual (n=89	
	Pre (%)	Post (%)	Pre (%)	Post (%)
 Displays an understanding of concepts related to patterns, through independent/group play activities or conversations with peers and/or teachers. 				
Most often applies	36	63	34	67
Sometimes applies	39	33	44	29
Doesn't apply	24	4	22	3
 Displays an understanding of concepts related to shape recognition and attributes, through independent/group play activities or conversations with peers and/or teachers. 				
Most often applies	36	63	34	67
Sometimes applies	39	33	44	29
Doesn't apply	24	4	22	3
 Displays an understanding of concepts related to ordinal numbers, through independent/group play activities or conversations with peers and/or teachers. 				
Most often applies	24	53	18	55
Sometimes applies	54	42	58	34
Doesn't apply	22	5	24	11
 Displays an understanding of concepts related to measureable attributes, through independent/group play activities or conversations with peers and/or teachers. 				
Most often applies	31	51	24	52
Sometimes applies	47	40	56	44
Doesn't apply	21	9	19	4
 Displays an understanding of concepts related to spatial skills, through independent/group play activities or conversations with peers and/or teachers. 				
Most often applies	22	48	19	54
Sometimes applies	55	44	67	41
Doesn't apply	22	8	14	5
6. Displays an understanding of concepts related to counting and numeracy, through independent/group play activities or conversations with peers and/or teachers.				
Most often applies	45	67	40	72
Sometimes applies	43	31	49	28
Doesn't apply	12	1	10	0
 Displays the ability to apply mathematical skills appropriately when solving problems. 				
Most often applies	26	42	15	43
Sometimes applies	42	51	54	51
Doesn't apply	33	8	31	6
8. Displays the ability to recognize and use mathematics in their everyday life.				
Most often applies	28	55	22	53
Sometimes applies	54	39	54	45
Doesn't apply	18	6	24	2

Parent/Caregiver Outcomes

Parent/caregiver outcomes are based primarily on the pre- and post-surveys that researchers administered to participating families in PBS KIDS and business as usual groups. Where appropriate, findings from the parent surveys are augmented with data from other sources, such as the media diaries, home visits, or parent focus groups. These data sources are described in the Methods section.

In order to understand shifts in parent behavior and attitudes, this section focuses specifically on comparing differences between PBS KIDS and business as usual groups on the post-surveys at the end of the study. Because families were randomized into equivalent treatment and control groups and there were few systematic differences between conditions on the baseline survey, differences in responses across the two conditions at the end of the study can be attributed to the effect of the treatment. (In the case where the two groups differed at baseline, we report both preand post-survey differences between conditions.)

Highlights

- Parents and caregivers in the PBS KIDS condition reported a higher frequency of joint parent-child technology use, more joint gameplay, and more conversation connecting digital media and daily life than did business as usual parents and caregivers.
- PBS KIDS parents and caregivers also reported significant increases in their confidence to support math learning for their children, as compared to business as usual families.
- Twice as many PBS KIDS parents and caregivers agreed that technology and media were tools for math learning (though, importantly, not for other subject areas), at the end of the study, as compared to the beginning of the study period. Comparison condition families, on the other hand, were unchanged in these views.
- A higher proportion of parents and caregivers in the PBS KIDS condition reported engaging in problem-solving strategies with their children at the close of the study than did parents/caregivers in the business as usual condition.

Change in Behavior Related to the Use of Technology and Media

The proportion of PBS KIDS parents who used technology with their child on a weekly basis increased over the course of the study. At the beginning of the study, 84% of PBS KIDS parents noted that they used technology with their child at least once a week, as compared to 89% of business as usual parents (p<.05). By the end of the study, however, a greater proportion of PBS KIDS parents than business as usual parents reported joint parent-child technology use once a week (PBS KIDS: 94%; business as usual: 80%; p<.05). The number of PBS KIDS parents reporting that they played digital games or used apps once a week with their child increased over the course of the study. By the end of the study, 79% of parents in the PBS KIDS group reported that they played digital games or used apps with their children at least once per week, compared to 54% of parents in the business as usual group (*p*<.05).

A larger percentage of PBS KIDS parents than business as usual parents reported making connections between media and daily life at least once per week at the close of the study. According to post-survey responses, an overwhelming majority of PBS KIDS parents (93%) noted that they connected the content of videos and games with children's daily lives. In contrast, only two thirds (67%) of business as usual parents reported doing so (p<.05). After the intervention, the majority of PBS KIDS parents (92%) also reported asking their children questions related to the media they were using, as well as answering questions their children asked about the media (96%), significantly more than business as usual families (p<.05).

Change in Behavior and Attitudes around Mathematics

PBS KIDS parents grew in their confidence to support children's mathematics learning. Over the 12 weeks of the intervention, the proportion of PBS KIDS parents feeling confident about supporting their children's mathematics learning increased. According to post-survey responses, the majority (96%) of PBS KIDS parents felt confident about their ability to support their child's mathematics learning, compared to 81% of parents in the business as usual condition (p<.05).

A greater proportion of PBS KIDS parents than business as usual parents reported helping their children with recognizing and drawing shapes, subtraction, and measurement. The majority of parents in the PBS KIDS group (90%) reported helping their child with recognizing or drawing shapes, compared to just under three quarters (74%) of business as usual parents who reported helping their children with this skill (p<.05). Similarly, by the end of the study, more PBS KIDS parents than business as usual parents reported helping their children with subtraction (66% compared to 48%; p<.05). These differences between PBS KIDS and business as usual parents suggests that the idea that the *PEG*+*CAT* intervention resources might have provided the context and tools to help parents engage with their child around recognizing and drawing shapes and performing subtraction.

Regarding measurement skills, on the pre-survey a larger proportion of PBS KIDS than business as usual parents reported that they helped children with this skill (60% of PBS KIDS parents vs. 18% of business as usual parents; p<.01). At the end of study, a larger proportion of PBS KIDS than business as usual parents continued to report helping their children with measurement (48% vs 29% respectively, p<.05). It is possible that the high level of support for measurement skills that PBS KIDS parents reported throughout the study provided little opportunity for the study resources to impact this skill.

A greater percentage of PBS KIDS parents than business as usual parents viewed technology and media as tools for mathematics learning at the conclusion of the study. Responses on the end-of-study survey indicate that about half (51%) of PBS KIDS parents opined that their children learned "a lot" about mathematics through the use of technology, as compared to a little over a quarter of business as usual parents (28%; p<.05). The

change in parents' views about technology as a tool for learning relates only to mathematics. In both PBS KIDS and business as usual conditions, parents' views about the extent to which technology supported children's learning of science, reading, or vocabulary, social skills, cognitive skills, and art/culture were stable over the course of the study, and there were no significant differences between conditions for any domain other than mathematics (p>.05).

Change in Behavior and Attitudes Related to Approaches to Learning (ATL)

At the completion of the study, a greater number of PBS KIDS parents than business as usual parents reported working on problem-solving approaches with their children. One of the goals of the PEG+CAT resources is to support the development of positive ATL behaviors (e.g., problem solving, self-regulation, self-efficacy). According to post-survey responses, 83% of PBS KIDS parents noted that they explored "what if" scenarios with their children (i.e., a problem-solving strategy that supports cognitive flexibility and generating new ideas). In contrast, 69% of business as usual parents reported engaging their children in "what if" scenarios on a weekly basis (p<.05). These differences may be reflective of PBS KIDS parents' uptake of the parent tip video that highlighted strategies for supporting children's ATL skills.

During the focus groups and home visits, PBS KIDS families spoke specifically about resources for ATL (and social skills) available in the *PEG+CAT* materials, and how children were taking these skills up in daily life. For example, parents who participated in focus groups noted that their children had begun to count to five when they needed to practice patience, a behavior that is modeled in the *PEG+CAT* materials. Such anecdotes indicate that children not only had exposure to the *PEG+CAT* resources, but also that those experiences hold promise for influencing children's behavior and supporting the development of self-regulatory strategies.

Families' Engagement with Intervention Resources

This section describes how families interacted with the intervention resources in general, and includes issues of access, support, and challenges that arose over the 12-week study period. In addition to the content emphasized in the *PEG+CAT* videos and games included in the intervention, patterns of families' engagement with these materials offer necessary and important context for understanding the child learning outcomes. For example, families' frequent use of videos and games addressing certain mathematical skills may have increased the likelihood for these resources to influence children's learning. At the same time, the variability in PBS KIDS families' use of the *PEG+CAT* intervention materials is notable, as is the fact that the majority of PBS KIDS families diverged from the recommended sequence of activities for any given week.

Highlights

- The majority of PBS KIDS condition families accessed intervention resources frequently, and many did so repeatedly, although there was considerable variation within the PBS KIDS condition with respect to individual families.
- PBS KIDS children accessed *PEG+CAT* intervention resources that exposed them to all of the target mathematical skills and, with less frequency, to all of the target ATL skills. Again, there was variability in frequency of access and limited data on length or quality of engagement with the resources within the PBS KIDS condition.
- PBS KIDS families reported finding the majority of the *PEG+CAT* intervention resources to be fun and engaging. Additionally, some parents expressed their appreciation that the resources provided their children with opportunities to practice math skills while others found that the games and videos complemented each other in a beneficial way that made the content more meaningful.
- Most PBS KIDS families progressed through the intervention experience over the 12-week study period, regularly
 accessing newly sequenced resources each week. The majority of families diverged from the suggested
 sequence, and overall use of the resources steadily declined over the course of the study.
- While PBS KIDS parents found value in the support materials they were provided as part of the *PEG+CAT* intervention, actual use of these resources varied. The majority of families reported the text messages they received as a part of the intervention to be helpful, practical, and useful, showing promise for the use of text messaging as a convenient and effective way to connect with families.
- Children used the *PEG+CAT* intervention media resources most often with their parents/caregivers, and parents in the PBS KIDS condition engaged in more joint media use with their children compared to parents in the business as usual group.

Families' Access of PEG+CAT Resources

PBS KIDS families viewed the majority of the *PEG+CAT* **resources included as part of the intervention.** On average, families accessed the majority (66%) of the 86 *PEG+CAT* intervention resources (including the weekly adventure and supplemental resources) at least once during the course of the study (Table 7). Families accessed a larger percentage (a mean of 78%) of the 65 core *PEG+CAT* resources (the weekly adventure videos, video clips,

online games, and home activities—see Appendix I for a description) included in the recommended weekly sequence.

At the same time, there was substantial variation across the families in the PBS KIDS condition with respect to their use of both the core and supplemental resources, as the large standard deviations in Table 7 indicate. For example, the number of recommended *PEG+CAT* resources accessed by families ranged from a low of 6 to a high of 65 over the course of the study, with five families accessing all 65 resources.

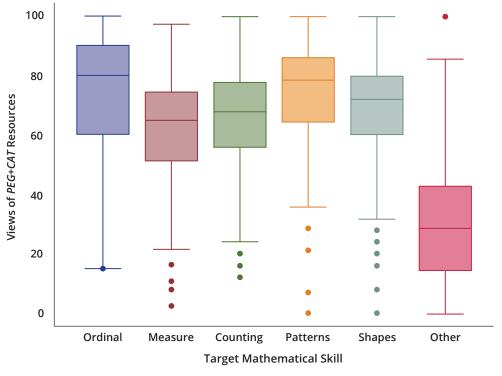
Table 7. Percentage of PBS KIDS Families who Accessed the PEG+CAT Intervention Resources (*n*=100)

	Mean	SD	Minimum	Maximum
Percent of all resources accessed by treatment families	65.70%	20.41	6.98%	100%
Percent of core PEG+CAT resources accessed by treatment families	78.29%	21.41	9.23%	100%

(Source: System Log Data)

Analyses uncovered no relationships between family characteristics (region, gender, race/ethnicity, family income, and parents' education) and use/frequency of access of the intervention materials (p>.05).

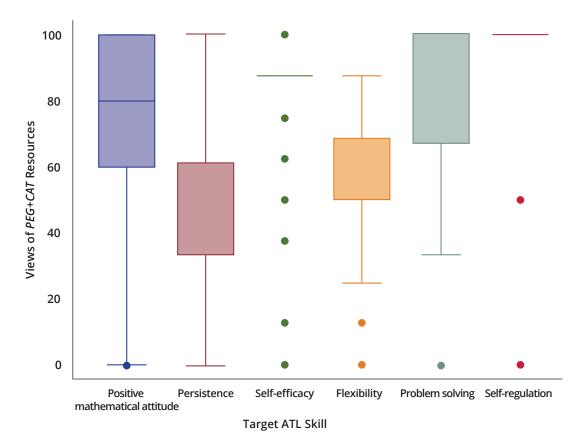
On average, children in the PBS KIDS condition accessed more than half of the *PEG+CAT* resources related to all target mathematical skills at least once during the study period. As Figure 7 indicates, PBS KIDS children viewed a median of close to three-quarters of all *PEG+CAT* content related to patterns, ordinal numbers, and shapes, and a slightly smaller proportion—a median of approximately two-thirds—of content related to measurable attributes and counting.



(Source: System Log Data)

Figure 7. Percentage of *PEG+CAT* Resources Accessed at Least Once by Target Mathematical Skill (*n*=100)

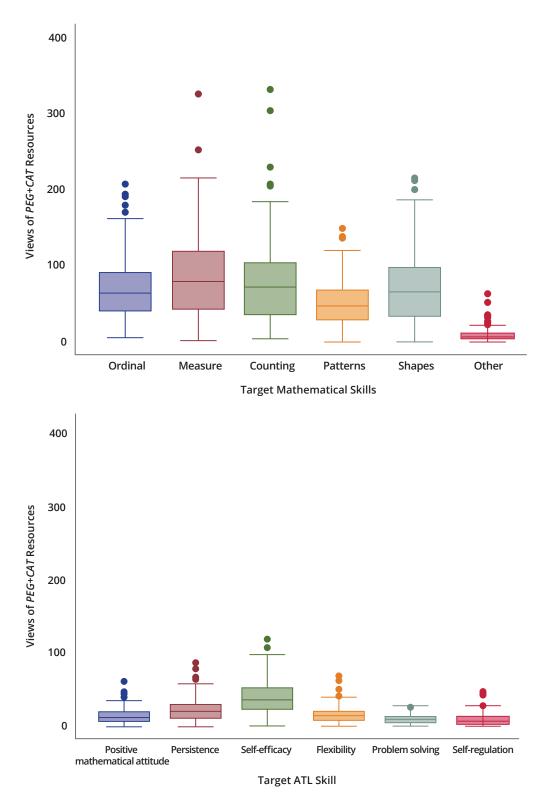
On average, children accessed almost half of all *PEG+CAT* resources related to the target ATL skills at least once during the study period. As Figure 8 indicates, PBS KIDS children accessed, on average, the majority of *PEG+CAT* resources focused on problem solving, positive mathematical attitudes, self-regulation, and self-efficacy, but only about half or less than half of the resources focused on cognitive flexibility and persistence. (The high medians for a few of the skills likely reflect, in part, the fact that only two unique resources addressed self-regulation, and three resources addressed problem solving.)



(Source: System Log Data)

Figure 8. Mean Percentage of PEG+CAT Resources Accessed at Least Once by Target ATL Skill (n=100)

Figure 8 above focuses on exposure to content by exploring the topics to which children were exposed to during the study at least once. In addition to the proportion of content accessed, we also examined the frequency of this exposure, as indicated by the total number of views of a resource across topic areas (Figure 9). In terms of overall exposure to target mathematics skills, children accessed *PEG+CAT* resources related to measurable attributes and counting content most frequently, followed by content related to shapes, ordinal numbers, and patterns. Compared to target mathematical skills, children had fewer views of the ATL content on average, likely due to the fact that these skills constituted a smaller portion of the resources overall. *PEG+CAT* video episodes including *The Big Dog Problem*, *The Dinosaur Problem*, *The Play Date Problem*, and *The Tree Problem* were the most popular videos, while *Chicken Blast Off, Chicken Dance*, and *Hungry Pirates* were the most popular *PEG+CAT* online games.



(Source: System Log Data)

Figure 9. Number of Times Families Accessed *PEG+CAT* Resources by Target Skill

The variability within the PBS KIDS sample is a consistent theme in all study data related to children's exposure to target mathematics and ATL skills. As before, the information about children's average exposure to target mathematics and ATL skills must be understood in conjunction with the fact that individual families varied greatly with respect to their accessing of the relevant *PEG+CAT* materials.

Similarly, it is important to note that system log data provide information about the number of occasions that PBS KIDS families viewed pages on the study website and, as such, are only approximate estimates regarding exposure to *PEG+CAT* content. Notably, these data do not offer any insight into how children engaged with the materials, the kinds of interactions taking place among children and their family members around the media resources, or how children responded to those experiences.

Finally, analyses of system log data might overestimate children's exposure to *PEG+CAT* content, as children could have been viewing the pages without interacting with the material. For example, data indicate that the child or a family member visited the page containing a *PEG+CAT* resource, but not whether the child played the video, played the video fully or partially, or played the video while doing other activities and thus did not watch it. All such interactional patterns would be considered instances of "viewing" the resource described in the system log analyses above.

Children's and Parents' Reactions to PEG+CAT *Resources*

PBS KIDS families reacted positively to the *PEG+CAT* **resources.** As Figure 10 highlights, 84% of parents reported that children found the *PEG+CAT* videos and games fun and engaging, while 82% of parents noted this opinion for the video clips.

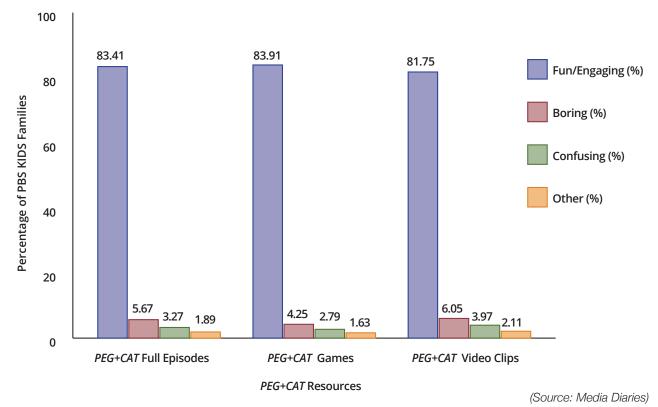


Figure 10. Reactions to the PEG+CAT Resources by PBS KIDS Families (*n*=100)

A greater number of PBS KIDS parents than business as usual parents reported that their children watched PBS programming at home at the conclusion of the study. Pre-survey data suggest that the majority of children across both conditions watched PBS (71%) and Disney (71%) television channels at home, with slightly fewer children (65%) watching Nickelodeon. Following the intervention, 81% of PBS KIDS parents indicated that their children watched PBS programming compared to 65% business as usual parents (p<.05). There was a slight decrease among the PBS KIDS parents reporting that their child watched the Disney channel, from 72% to 65% (p<.05), suggesting potential crowd-out effects as more families reported watching PBS.

After participating in the study, a larger number of parents in the PBS KIDS condition (64%) reported that their children watched PEG+CAT videos and played PEG+CAT games at least once a week, significantly more frequently than parents in the comparison condition (19%; p<.01). While it is to be expected that families in the intervention condition would report engaging with the PEG+CAT materials with greater frequency than would business as usual families (and as compared to the beginning of the study), the magnitude of the contrast between the groups is notable.

Generally positive reactions to *PEG+CAT* **emerged as a consistent theme in parent focus groups and media diaries.** Parents and caregivers noted how much children enjoyed watching the videos, playing the games, and talking about *PEG+CAT* with their families. Parents highlighted *PEG+CAT*'s music as an appealing aspect, and remarked on how their children sang the *PEG+CAT* tune throughout the day, long after watching the videos and playing the games; one parent noted that she "was at work singing *Chicken Dance* or *Pizza Place* because he [her son] was on it all day."

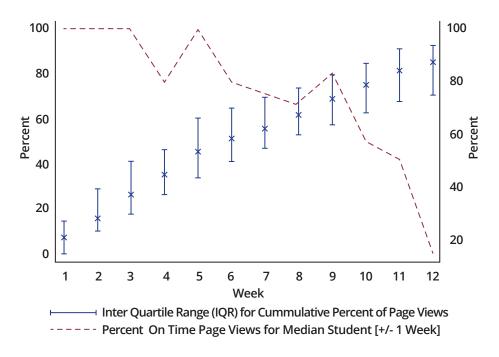
In the focus groups conducted at the end of the study, PBS KIDS parents reported that the games and videos complemented each other. In particular, parents noted that the games offered a context where children could apply and practice the mathematical skills introduced by the video, thereby deepening their understanding of mathematical skills. As one parent reported, "I think when [my son] watches just the videos on his own, I don't think he's paying attention to the counting or the subtracting or measuring things they are doing, but when there is a game that goes along with it, then he's able to do it himself and understand it better." While children enjoyed both videos and games, a few parents/caregivers noted that the games engaged children to a greater extent and were requested more often by their children than were the videos. For example, one caregiver noted, "When [her son] got a new game every week, he didn't want to let it go and would focus on that" even though "it's not that he didn't like the videos." Finally, children did not respond to the full episodes and video clips equally; some parents reported that their children enjoyed the full episodes more than the short clips, as the latter were sometimes too brief and did not always make sense to children as standalone pieces.

Focus group discussions also elicited some critical opinions of the *PEG+CAT* **resources.** In addition to the positive views expressed by many parents, some parents indicated that their children did not like the videos. Other parents reported that the videos and games were too "babyish" for their children, and therefore not challenging enough to hold their attention for long. According to one parent, because the children "already knew everything [in the games], it's not necessary for the parent to sit next to them."

Adherence to the Recommended Intervention Sequence

Analyses explored the extent to which PBS KIDS families followed the recommended sequence within each week (that is, whether families followed the order of activities specified for any given week) and across all 12 weeks of the intervention (that is, whether families accessed the recommended *PEG+CAT* materials for each given week).

Families' use of recommended videos, clips, and games for each week from the study website was high initially and declined over the course of the study. The dashed line in Figure 11 displays the proportion of the recommended *PEG+CAT* resources families accessed from the study website within a week before and a week after when the resources were supposed to be accessed (i.e., within a three-week period). In general, families tended to access most of the videos, games, and video clips specified for the week at the beginning of the study. For example, during the first two weeks of the study, median family access of the content specified for each week was 100%. After the first few weeks, adherence tapered, declining over the course of the intervention, as families were less likely to access the full specified resources for the week. By weeks 10 and 11, PBS KIDS families were accessing a median of only about half or a little more of the recommended sequence of materials for the week.² Media diary reports mirror these back-end data findings.



(Source: System Log Data)

Figure 11. Percentage of Each Week's Specified Sequence and Cumulative Percent of Entire Sequence Viewed by PBS KIDS Families (*n*=100)

² As before, study results suggest wide variability across families in terms of the extent to which they viewed/played only the recommended videos and games for any given week.

Although they did not follow the sequence strictly, families generally progressed gradually through the intervention over the course of the 12-week study, regularly accessing new sequenced resources

each week. The vertical bars in Figure 11 above indicate the proportion of cumulative sequenced content that families viewed over the course of the study (the percentages include only the core resources, and not the supplemental resources). There were a few exceptions to this pattern, however. A few families completed the intervention early, watching all of the *PEG+CAT* resources in a span of just a few weeks. For example, by the eighth week of the study, eight families had completed 90% or more of the sequence. In contrast, a few other families hardly progressed through the sequence. Specifically, by the end of the study, 10% of families had completed 50% or less of the sequence.

Following the PEG+CAT intervention sequence was not a priority for many PBS KIDS families. Although sequence—the arrangement of activities within and across weeks—was emphasized in the intervention's design, the results from the media diaries indicate that following the sequence was not important to many participating families. Some families adhered to the order of activities recommended in the *PEG+CAT* Experience Guide, and were appreciative of the structure it offered. For example, one parent noted that the recommended sequence helped identify the media focus for the week, moderated the child's media habits, and supported joint use of media. Other parents were more flexible, permitting children to access resources from prior or subsequent weeks, after completing the current week's sequence (during a home visit interview, one caregiver went so far as to refer to a week's recommended sequence as her child's "homework."). Not all families reported that they saw value in adhering to the sequence, however. During focus groups, parents said they allowed their children to choose the order with which they selected the resources on any given week, such as by playing the week's games before watching the videos, returning to favored resources from previous weeks, or selecting resources from any number of weeks.

Focus group data also offer some insight into why some families' might have diverged from the recommended sequence. In particular, some parents/caregivers expressed the view that the weekly sequence of *PEG+CAT* materials was not sufficient to occupy children for the entire week and that, upon completing the materials for a given week, children would often access materials intended for subsequent weeks. Another possible explanation for families' progressive divergence from the sequence is that children developed preferences for particular types of media (e.g., games or videos) or affinities for specific characters over the course of the study and, as a result, increasingly chose resources according to those preferences.

Families' Use of Support Materials

Parents/caregivers reported that the family support materials that were a part of the PBS KIDS intervention were valuable. The media diaries for Weeks 1–3 and for Week 5 asked parents/caregivers to comment on the perceived value of the family support materials. The results of this analysis, summarized in Table 8, indicate that the majority of families found the materials "very useful" in supporting the joint use of media and in encouraging children's problem-solving skills.

Perceived value of family support materials	Week 1 (n=80)	Week 2 (n=80)	Week 3 (n=80)	Week 5 (n=84)
Very Useful	55	55	55	59
Somewhat Useful	24	23	25	21
Not Useful	0	1	0	0
Did not Use	1	1	0	4

Table 8. Perceived Value of Parent Materials in Promoting Media Use and Problem-Solving Skills

(Source: Media Diaries)

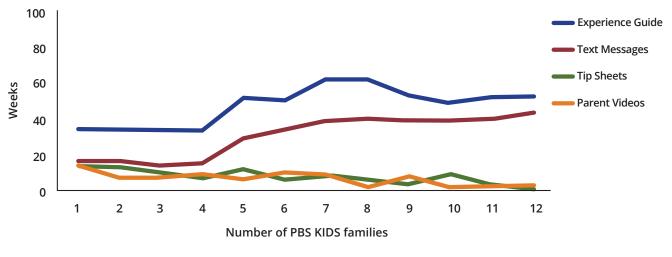
PBS KIDS focus group parents reported that the tips that were incorporated into the Experience Guide helped them frame how to use math in daily life and how to moderate media consumption,

echoing findings from the parent surveys. For example, one parent in the focus group reported that she had begun to stay in close proximity to her child during media use because the support materials emphasized the importance of supervising media use. Additionally, parents reported that the poster helped them know which content to emphasize during any given week, how to moderate their children's media habits, and how to actively engage in the media with their children.

PBS KIDS focus group participants reported that the weekly text messages were helpful, practical,

and useful. For families that opted into receiving them, parents said they were helpful because they conveyed a quick, simple, and specific content area on which they could focus. Parents also suggested ways for improving the text messages. For example, some parents said they would have liked the ability to customize the content of the messages they received. While some parents stated that they helped them moderate device and media usage and follow the study's intervention timeline, other parents stated that they only appreciated the messages that related to specific themes, such as baking or bath-time activities. Additionally, some parents/caregivers said they would have liked to schedule text messages to arrive at a more convenient time, either a few days earlier to allow the parent to plan a suggested activity or at a particular time of day when the parent could most likely attend to it.

The use of support materials by PBS KIDS families (Experience Guide, parent videos, tip sheets, and text messages) varied. In general, families used the Experience Guide and the weekly text messages with greater frequency than they used the tip sheets or parent videos (Figure 12). Additionally, families reported increased use of the Experience Guide and weekly text messages over time, and decreased use of the parent videos over the course of the intervention, which is consistent with the design of the support materials. Specifically, parent videos were intended to introduce parents to the intervention, highlight strategies for jointly engaging with children around the *PEG+CAT* resources, and promote math talk and problem-solving skills. The parent videos were designed for more frequent use in the first five weeks of the intervention, and did not appear as part of the recommended sequence of materials in weeks 6–12.



(Source: Media Diaries)

Figure 12. Use of Family Support Materials by PBS KIDS Families (*n*=101)

Children's Use of PEG+CAT Resources with and without Others

Children in the PBS KIDS condition were more likely to use media with parents/caregivers than with other people or on their own. Table 9 shows the social arrangements for media engagement reported among PBS KIDS families. Across all *PEG+CAT* resources comprising the intervention, parents/caregivers viewed videos or played games with children about half the time. After joint use with parents, solo use (children using media on their own) and joint use with siblings were the most commonly reported patterns of media use among the PBS KIDS families. Solo use was slightly more common across all resources and all weeks of the intervention. In general, children in the PBS KIDS condition tended not to use media with other children.

	With Caregiver Mean %	With Siblings Mean %	On Own Mean %	With Other Children Mean %
Videos	47.80%	24.21%	28.59%	4.85%
Games	50.67%	23.12%	30.99%	3.97%
Video clips	51.18%	23.32%	32.19%	6.03%

Table 9. Patterns of Media Engagement Among PBS KIDS Families³ (n=101)

(Source: Media Diaries)

³ Average percent across weeks where percent was only out of families who reported time spent on media activity.

Parents/caregivers in the PBS KIDS condition were more likely to report engaging in media use with their child than were business as usual parents and children, who more typically engaged in separate activities. As Table 10 indicates, parents/caregivers in the business as usual condition were more likely, on average, to report that they were completing household chores, watching television/videos, or playing digital games separately while their child was using media and technology than were parents/caregivers in the PBS KIDS families.

Table 10. Activities Reported by Parents/Caregivers during Children's Media Use (*n*=197)

	PBS KIDS 12-week average (%)	Business as Usual 12-week average (%)
Completing household chores and tasks	32	47***
Caring for other children	10	13
Watching TV/videos or playing games/apps separately	4	15***
Child did not use technology without an adult	14	8*

*** p<.001; ** p <.01; * p <.05

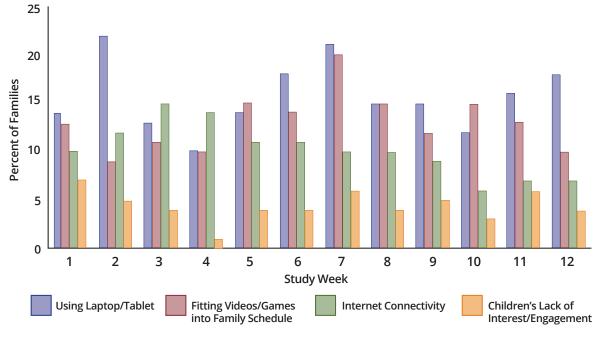
(Source: Media Diaries)

These contrasts between the PBS KIDS and business as usual families support the inference that parents/caregivers in the PBS KIDS families were oriented toward more intentional joint use of media, as compared with parents/ caregivers in the business as usual condition, who may have counted co-presence and monitoring of technology among instances of joint use.

Data from home visits illustrate two main types of parents' participation with children around the media. In the first type, the parent was present when the child viewed videos or played games, but tended to perform a supervisory role. While parents might set up the media experience (e.g., identifying the game or logging in) or troubleshoot problems (e.g., navigating), they did not engage with the media directly or discuss the media experience with children. Instead, they used the time for other activities, such as cooking, cleaning, or using their own devices. In the second type of participation, the joint media use was more intentional. In these instances, parents played a more active role, engaging directly with the media (e.g., participating in gameplay) and/or discussing the media experience with the child (e.g., asking children questions, answering questions the child asked, making connections between the media experience and the real world, and listening to/acknowledging the child's spontaneous comments). Researchers observed both kinds of participation across participating families, regardless of study condition. However, the results summarized in Table 10 suggest uptake among PBS KIDS families of some of the principles of deliberate joint engagement with media emphasized in the *PEG+CAT* intervention.

Challenges Enacting the PEG+CAT Intervention

Approximately half the PBS KIDS families reported challenges with enacting the intervention during any given week of the study. The most commonly reported challenges were using the laptops/tablets and finding time to fit the games and videos into the family schedule. Connectivity issues and not being able to access the digital resources emerged as a third challenge (Figure 13). Children's lack of interest or engagement was not a notable challenge across the 12 weeks of the intervention.



Source: Media Diaries

Figure 13. Challenges Reported by PBS KIDS Families while Enacting the PEG+CAT Experience by Week (n = 101)

It is likely that the data in Figure 13 underrepresent the challenges encountered by families in the PBS KIDS condition, as the parents/caregivers who indicated a challenge for any given week did not always specify the type of challenge they faced.

PBS KIDS families encountered myriad technological challenges over the 12-week study period. In order to ensure that PBS KIDS families had continuous and reliable access to the digital resources included in the study, each study-related device came with 3GB of data per month. However, families still encountered challenges with the technology tied to the intervention. In an effort to reduce the impact these issues could have on study participation, researchers attempted to respond to technology difficulties immediately. Despite these efforts, families encountered difficulties with Internet connectivity limitations due to slow or throttled data speeds as well as limited broadband coverage in their neighborhoods, device malfunctions (7 of the 201 devices), difficulty signing in to devices and the study site, and devices reset to factory settings. Researchers walked families through processes to address Internet and sign-in problems over the phone, and met individually with families with lost, stolen and broken devices. Families did not go more than one week with an inoperable device.

Up Close: *Media Use in PBS KIDS Homes*

Randomized controlled trials are designed to gather evidence that speaks to broad questions of concern, in this case, math learning among young children living in lower-income households. While a study such as this one must necessarily concern itself with analyzing a full data set collected by the research team, it is important to remember the very real families who made the study possible. Although it is not possible to represent the richness of PBS KIDS families' experiences with the *PEG+CAT* materials—much happened over 84 days in each of the 197 homes—the following vignettes are modest representations of what participation looked like in four different homes. Formally, these vignettes draw upon home visit data—systematic researcher accounts of two visits with 10 PBS KIDS families in each study condition conducted over the 12-week period—that complements the more comprehensive data from media diaries and system logs. Less formally, rather than being representative, these snapshots provide glimpses of particular families' use of study materials, concretely depicting specific moments of dual-generational media use and learning.

The vignettes, which use pseudonyms, highlight a range of behaviors from children and adults alike. From these stories, it is possible to see how parents supported children's use of the *PEG+CAT* materials, the types of interactions taking place between adults and children, how parents took up the guidance in the family support materials, and how children and parents reacted to the videos and games. In addition to depicting how families took up the mathematics skills, these vignettes also offer evidence of children's uptake of ATL strategies highlighted in the *PEG+CAT* resources.

- Carlo and Veronica is an example of the importance of mediation, and how co-play with a caring adult is critical for helping children progress through games, even the ones with which they are familiar.
- Jessica and Adrian's vignette emphasizes the value of transmedia. When games accompany videos, they
 open up opportunities for children to practice and appropriate the math skills at the center of the videos.
 Adrian's experience also exemplifies the sing-and-dance-along allure of *PEG+CAT*'s music as well as the
 developmental challenge of paying attention to an 11-minute video, which is common among four-year-olds.
- Ana and Sofia is an example of the rich interactions that can, and did, unfold among PBS KIDS children and parents around the *PEG+CAT* videos and games. It also highlights how parent-child interactions helped children make sense of the math, turning Peg's "big problems" into opportunities for thinking about mathematical questions in the context of everyday life.
- Liliana and Angela is a powerful reminder that media tend to be designed for solo use, rather than joint engagement; that adults are differently prepared to engage with children around media; and that, in some cases, resources such as tip sheets and experience guides might not be sufficient and that models, especially parent videos, might be necessary.

Carlo and Veronica: Importance of Mediation

Four-year-old *Carlo* lives with his family in the New York City area. When researchers visited Carlo's home, they talked with Carlo, his mother, and his seven-year-old sister in the living room of their apartment. In addition to the PBS KIDS laptop and tablet provided as part of the study, other devices in sight included a large TV, a Wii gaming system, a DVD player, and a cable box.

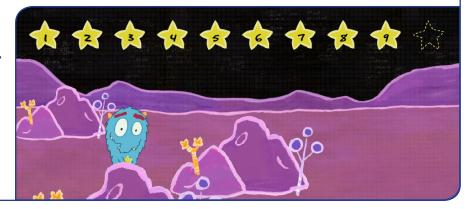
At the first visit, researchers had the chance to speak with *Veronica*, Carlo's mother. Carlo was present in room for this conversation, playing with the PBS KIDS laptop and, at times, drawing pictures. Veronica mentioned that Carlo enjoys playing *Pizza Place*, a *PEG+CAT* online game in which Peg directs children to place a specific number of toppings on a pizza. ("Let's put some toppings on this pizza! Ramon wants seven peppers on his pizza.") Veronica recalled that Carlo had come to her a few weeks earlier after playing *Pizza Place* saying, "Mommy come! I want you to eat one of the slices of pizza!" This had opened up a dialogue between Veronica and Carlo about the game and how to play it.

The second visit to Carlo's home involved opportunities for researchers to observe Carlo and Veronica using the *PEG+CAT* videos and games. At first, Carlo sat on Veronica's lap at the dining table as they played a game together; later, she stood behind his chair, looking over his shoulder as he explored the media on his own. Carlo's older sister, Eva, was present too, but she sat at the far end of the room, watching videos and playing games on a tablet. Eva approached the table from time to time but Carlo discouraged her from joining them.

Together, Veronica and Carlo decided to play two *PEG+CAT* online games: *Chicken Blast Off*, focused on shapes, and *Star Swiper*, a counting game. Both were games that Carlo played often, according to Veronica, but during the visit, he needed her help on a number of occasions to progress through the games.

Veronica explained that since Carlo began watching *PEG+CAT*, he had begun to use Peg's strategies to deal with frustration. Each show begins with a problem Peg encounters, causing her to squeal, "I'm totally freaking out!" to which the insightful Cat responds by reminding Peg to count backwards from five to calm down. Veronica said that Carlo had begun to declare, "Mommy, I'm angry. I'm counting," and then count "1, 2, 3..." to relax. Veronica said Carlo learned this from *PEG+CAT* videos and, with her encouragement, had been using this strategy at home and at school.

A still from the online video game *Star Swiper*.



Adrian and Jessica: *Value of Transmedia*

Four-year-old *Adrian* and his mother, *Jessica*, live in the San Francisco Bay Area. During the home visits, researchers spoke with Adrian and Jessica in their living room, equipped with a long, L-shaped sofa and a single sofa chair along the edge of wall. On the other side of the room were the front door, which was left open, and a play area with toys. The TV was positioned on a wall at the front of the room, and was paused on what appeared to be an animated children's movie.

At the second visit, Adrian initially played with an iPad, lying on the chair, his legs over the arm. Later, when Adrian started to play with the Chromebook laptop, he moved to the larger sofa so that his mother could sit beside him. Jessica brought over a small round table so the Chromebook could be in front of them. During the activity, Adrian sat next to his mother on the couch, stood up and danced, or knelt on the carpet to use the laptop and trackpad.

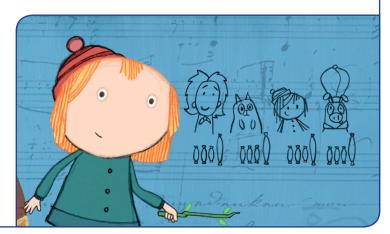
Jessica asked Adrian if he wanted to play a game. "The Chicky!" he responded gleefully, and Jessica navigated to the *Chicken Dance Game*, a *PEG+CAT* game in which players help chickens complete their "really cool dance" pattern by choosing the dance step for the last chicken in the group. As they played, Adrian's mother consistently attempted to direct the conversation and support Adrian's game play by asking questions like "What comes next?" and "Is that the right one?" Adrian retained control over the game, choosing "Free Play" instead of "Replay" and selecting patterns he wanted to make, even when Jessica encouraged him to try other ones. Music and other game sounds seemed to catch Adrian's attention, keeping him engaged with the game. As the game progressed, he danced along with the game and mimicked the "cheep, cheep" sound the game produced to indicate incorrect answers.

Next up was the *PEG+CAT* episode, *The Beethoven Problem*. Like with the *Chicken Dance Game*, Adrian seemed to enjoy the music, nodding his head in time to the beat and humming and singing along at some places. At the start of the video, Adrian stood up and began to dance along. Sometimes, he counted along with the video or made comments about what he saw happening on screen to his mother; at other times, he sat quietly beside Jessica, intently watching the video. While he seemed to enjoy the video, particularly the music, watching it fully seemed to be a challenge for Adrian, and he moved around from one spot to the other while it played.

Jessica reported that Adrian learned from the *PEG+CAT* games and videos, but she worried that when he watched videos on his own, he did not pay attention to the counting, subtracting, or measuring that is taking place on-screen. When games accompanied the video and Adrian was able to do the activities himself, Jessica felt that he understood more of the math. Jessica also said that Adrian was learning about patience from *PEG+CAT*. Even though Jessica did

not believe that Adrian knew how to apply Peg's strategy to his own life—and count backwards from five to calm down when he became frustrated—he often noticed Peg's frustration while watching the show and would point out that Peg "needs to calm down."

A still from the *PEG*+*CAT* episode *The Beethoven Problem.*



Ana and Sonia: Bringing Math and Problem-Solving to Life

Sonia and her four-year-old daughter, *Ana*, live in the San Francisco Bay Area. During one of the research visits to their home, which was conducted in Spanish in the family's living room, Ana sat in a child-sized folding chair next to a low table in the middle of the room, and Sonia sat next to her in her own chair, a little farther back. Sonia reported that she and Ana would typically watch or play together once or twice a day. Other times, Ana would play or watch independently in the same room.

During the second visit, Ana chose to watch *The Big Dog Problem*, reportedly one of her favorite *PEG+CAT* episodes from the suggested media. In this episode, Peg and Cat need to mail some important letters for Peg's mom, but they find a very big dog blocking the mailbox. Although they are scared at first, Peg and Cat eventually make friends with the dog who helps them "become tall enough" to reach the mailbox and mail the letters.

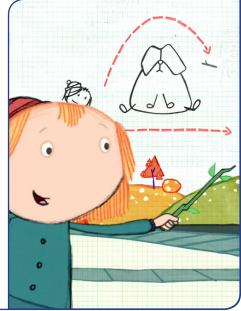
As they began watching, Sonia initially guided Ana, telling her where to click to play the video on the Chromebook laptop. The two of them watched the show together quietly for the first few minutes until Sonia asked Ana to pause the show, saying "Can you explain to me what was going on, because I didn't understand?" This happened several times—Sonia asked Ana to pause the show so she could raise questions that prompted Ana to explain what was happening in the video—until Ana's infant sister started to cry in the other room and Sonia left to attend to her. After a few minutes, Sonia returned with the baby and stood behind Ana, rocking the child, watching the video, and continued to ask Ana questions.

Ana seemed to enjoy talking about the video and she responded to most of her mother's questions although she ignored a few when she was completely engrossed in the video. When the video ended, Sonia turned the conversation to real life and how they could reach something that was up high and out of reach—the problem encountered by Peg

and Cat in this episode. Ana told her mother they could bring a ladder and climb, or they could jump, "be big and reach," or bring a chair or table to be bigger. When Sonia asked Ana if she learned anything, Ana said that "Peg measures Cat's height," which happens at the end of the episode.

Sonia reported that since watching *PEG+CAT*, Ana had begun to copy Peg's language and antics. At times, Ana would say, "I have to think," and "I have to find a way," putting her finger to her forehead, and when she saw a mess she wanted to clean up, she would say that she was going to think of a solution. Her mother also said that Ana liked to count, and often counted along with Peg. Ana also liked to play the *PEG+CAT* game, *Pizza Place*, and when they ordered pizza in real life, Ana had started requesting a specific number of her favorite toppings, just like the game.

A still from the *PEG+CAT* episode *The Big Dog Problem.*



Liliana and Angela: *Opportunity for Additional Modeling*

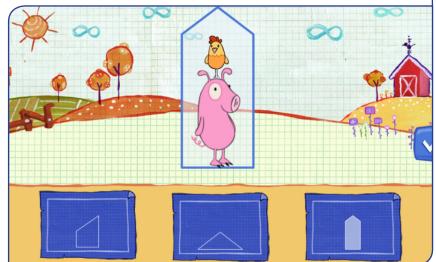
Liliana is four years old and lives in the San Francisco Bay area with her mother, *Angela*, her father, and two siblings. The home visits took place in the living room and, although everyone was home, only Liliana remained in the room during the visit; her mother came and went, and her siblings and father remained in other rooms of the home.

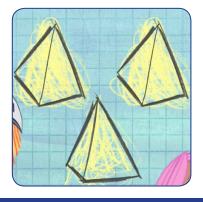
Angela said her daughter enjoyed the *PEG+CAT* videos, watching them over and over again. During the visit, Liliana selected and watched *The Penguin Problem* on the tablet as she sat and ate a hot dog. Her mother stood beside her and explained, "I stand here because the worksheet said that an adult is supposed to be here to supervise the media." Her mother was referring to a Parent Tip Sheet the study team had provided, which offered suggestions for how parents could interact with their children as they watched and played media together. Her mother remained quiet as her daughter watched the video, and then left to go into the kitchen. Liliana remained at the table and when the video ended, she replayed *The Penguin Problem* episode again, bouncing her legs to the music, eating her hot dog, and watching intently.

Angela returned a little later and helped Liliana find the *PEG+CAT* game *Chicken Blast Off.* Liliana began to play alone as her mother stood beside her and watched silently. At one point, Liliana had to choose the appropriate shape from a series of options. She pointed to one, turned to her mother, and asked, "Este?" wanting to know if the shape she wanted to choose was the correct one. Her mother continued to watch but did not respond. Liliana made her selection, continued to play through several levels, and expressed delight when the game's narrator told her she had done something "totally awesome!"

Angela expressed preferences for some videos and games over others, favoring *Pizza Place* because "it teaches [Liliana] how to count," and *Chicken Blast Off*, because it "helps teach shapes" and "where to put things." Angela also mentioned that she disliked *The Penguin Problem* because she found that there was less for Liliana to do while she watched it.

A still from the online game *Chicken Blast Off.*





Limitations and Constraints

The study has the following limitations and constraints.

- While this sample is appropriate to the goals of the PEG+CAT Study and broadly representative of the audience served by the Ready To Learn Initiative, the sample is not nationally representative of the population of preschool children and their families. The study sample included children and families living in urban neighborhoods where there is a higher concentration of low-income households and of children who speak a language other than English at home.
- The study sample may be biased, as families volunteered to participate in the study; thus selection bias (i.e., the participation of families where parents are favorably disposed toward media-rich forms of learning) cannot be ruled out. Because the study families are motivated and more likely than the population as a whole to use the media intervention, it suggests that our findings may overestimate the effect across the population of pre-K families (or of a more representative sample of pre-K families). Given these limitations, the findings apply specifically to the children and families who participated in this study, and do not support inferences about children in general.
- A customized approach to assessment was required because few validated early mathematics assessments exist. Currently, there are no standardized preschool mathematics measures with valid subtests for the particular skills (counting, patterns, shapes, measurable attributes, ordinal numbers, and spatial relationships) targeted by the study experience. Although these skills are central to the development of mathematical reasoning and knowledge, assessments are only just beginning to attend to these skills and none has sufficient detailed subtests to measure them. Additionally, the scope and depth of the intervention itself were very limited, requiring an assessment that was similarly focused.
- The mathematics assessment used by the research team to measure child outcomes has not been fully validated. Although the research team followed guidance on assessment development (including Evidence Centered Design (ECD) principles and guidelines for assessment development for young children, and conducted pilot testing) and conducted psychometric analyses to evaluate item performance and evaluate factor structure (Exploratory Factor Analysis (EFA)/Confirmatory Factor Analysis (CFA), Cronbach's alpha coefficients, etc.), researchers

have not conducted studies to comprehensively examine the validity of the measure (for instance, examined associations with other measures of similar or related abilities nor examine item performance in various samples).

- Because the intervention was 12 weeks in duration, long-term changes to parent/caregiver attitudes and impacts on children's skills and knowledge are not known.
- Parent/caregiver findings are based primarily on self-report data. Aside from surveys parents completed at the beginning and the end of the study, researchers did not directly measure parents' and caregivers' attitudes and beliefs.
- Although researchers employed a variety of data sources to capture and describe families' use of the *PEG+CAT* resources, estimates of engagement with the intervention resources are, at best, close approximations. For example, the system log data indicate that the child or a family member visited the page containing a *PEG+CAT* resource, but not the length of time spent viewing, whether the child or another individual was viewing the resources, or the extent to which the viewer was fully engaged in the resource or not attending at all. The media diaries relied on self-report data on a number of items that were not fine-grained by design (in order to reduce burden on respondents and ensure a high response rate). The home visit and focus group data involved only a sub-sample of study participants.
- Given the limited sample size, it is possible that the study did not have sufficient power to detect smaller effects.



Discussion and Future Research

Findings from this CPB-PBS *Ready To Learn* study will be of particular interest to parents, educators, media producers, researchers, decision makers at funding agencies, and policy makers who hold twin interests in children's early learning and caregiver supports. Increasingly, these stakeholders recognize that if an intervention is to be successful among families living in poverty then it must have a dual focus on both children and the adults who care for them (DeNavas-Walt & Proctor, 2015). Specifically, this study documented how engagement with *PEG+CAT*, a first-generation public transmedia property, had measurable positive effects for children as well as their caregivers living in underserved communities. The study examined how *PEG+CAT* videos, video clips, and online games were taken up by families in home environments, and how the use of these media supported positive mathematics learning outcomes among children and positive attitudes among parents/caregivers towards mathematics learning and technology, both in general and as a tool for promoting mathematics learning.

This study builds on research from Common Sense Media and the Joan Ganz Cooney Center documenting the extent to which technology and media, including educational media, are now a regular part of American childhood (Rideout, 2013; Rideout, 2014). It also extends the work of researchers who are creating an evidence base emphasizing how home use of educational media can support children's learning of skills and practices that are valued in school (McCarthy et al., 2012; Starkey, Klein, & Wakeley 2004). Given that a significant proportion of children's waking lives unfold outside of school, "in the multiple contexts and valued practices of everyday life" (Banks, et al., 2007, p.12), the ubiquity of digital media in the lives of families, especially in their homes, has the promise to advance children's learning by offering "a breadth of experiences, guides, and locations" (Banks et al, 2007, p.12).

Another useful frame for the findings of this study comes from Kearney and Levine's (2015) recent work examining the benefits of Sesame Street to preschoolers in low-income families and neighborhoods. While the majority of preschool-aged children in the United States do not yet have access to high quality early childhood programs where they might learn the skills they need to succeed in school, public media programs are available to nearly all children. In this context, two questions taken up by the public media system are: Can young children living in low-income communities be reached through digital media in ways that are beneficial to them and their caregivers? If so, can public media resources foster the learning of early mathematical skills likely to improve children's learning experiences and outcomes in kindergarten and beyond? The findings from the current study offer some evidence addressing these questions. More importantly, they open the door to future studies that continue to push the boundaries of how and when such learning can take place for all children, and particularly for children in families with limited financial resources, who might also be underserved by public preschools.

Children's Math Learning

Young children who demonstrate age- and grade-appropriate math skills at an early age are on track for later success in school, whereas failure to achieve early math learning milestones is associated with later poor performance in school. EDC/SRI's analysis of the child assessment data in this study indicates that the PBS KIDS *PEG+CAT* intervention had a significant positive influence on some of the mathematics skills promoted by the program. This finding builds on Starkey, Klein, and Wakeley (2004) who found that home experiences with educational media and technology could support early mathematics learning. In particular, EDC/SRI analyses identified positive outcomes for math skills that are less commonly taught and practiced in formal and informal early childhood settings, such as ordinal numbers, spatial relationships, and 3-D shapes even though researchers found no effects of the intervention for commonly-taught skills, such as measurable attributes, pattern creation, counting, 2-D shapes, and pattern continuation. This suggests that through the *PEG+CAT* experience, children in the PBS KIDS group were likely to have been introduced to, and provided with opportunities to explore and practice mathematics skills beyond those that children are typically likely to encounter at home and school.

The findings also lead to new areas worthy of exploration. For example, one reason why children are not typically exposed to mathematical learning experiences involving ordinal numbers, spatial relationships, and 3-D shapes could be because parents/caregivers may believe that young children are not equipped to understand these concepts. Other reasons might be that parents and caregivers are unaware that these are mathematical skills valued in school, and unacquainted with developmentally appropriate opportunities and strategies to incorporate these ideas into their interactions with children. While prior research by Ginsburg, Lee, & Boyd (2008) indicates that young children are capable of learning mathematical content in these areas and that adult-child interactions can advance children's learning of sophisticated ideas valued in formal learning environments, few studies have examined how best to help parents and other caregivers introduce these concepts to their children. Further study examining adult uptake of information about early math learning for young children, and also about adult-child interactions around math activities as a way to support skill development, can take these findings to the next level and can support continued development of resources that support developmentally appropriate content-area learning for all children.

Parent/Caregiver Behavior and Attitude Changes

Engaging parents in their children's school-based early learning experiences is a goal of most contemporary early education programs, yet finding ways to engage parents in a sustained way that can address families' needs and respond to their circumstances can be very difficult. Study data show that PBS KIDS families took up the curated resources included in the *PEG+CAT* intervention despite the typical obstacles of home life, such as contending with limited time to engage in a new activity. Parents and families were motivated to engage with the materials and concepts introduced in the study, and their expanded view of technology as a tool to support their children's mathematics learning holds real promise for their children's later academic experiences. *PEG+CAT* resources helped parents recognize new areas of math to talk about and the family engagement materials provided families with support when engaging with their child. While parents already may have recognized activities such as counting, making patterns, and identifying 2-D shapes as math, families in the intervention condition had access to information about additional math skills that encouraged them to extend children's mathematical exploration beyond these basics.

Parents in the PBS KIDS group reported that they were more likely to watch videos and play games together with their children, and connect educational media with lived experience; they also reported increased confidence in supporting mathematics learning. All of these are positive signs for leveraging public media in support of early learning. These differences in behavior may have resulted from exposure to the study resources, which included specific information for parents about target math concepts, using technology to support learning, and engaging in media viewing and playing with children. By providing this information in short and relatively accessible formats (video and print information), parents were supported with enough information to engage fully with their child with the media and interact around target math skills. In addition, the study sought to maintain parent engagement through text and phone call reminders about study activities, adding to a small body of work demonstrating positive effects of communicating regularly with parents, and sharing easy-to-receive, useful strategies for parents to engage with their children's learning (York & Loeb, 2014).

The study intervention was premised on the assumption that mediation of transmedia content is essential to maximize the educational potential of these resources. In the design of this study, mediation took the form of (a) selecting, curating, and sequencing developmentally appropriate *PEG+CAT* content aligned to valued early mathematical skills, and (b) providing resources to enable an adult to jointly engage with media with children and through that joint engagement, provide focus and make explicit the target learning goals for children. How to engage adults and help them to guide their children is a challenge that developers of transmedia must address, and further research targeting effective approaches to providing this support, such as modeling parenting strategies, will benefit children, their parents, and the overarching goal of connecting home and formal learning environments.

Family Engagement with PEG+CAT

Families' positive responses to and consistent engagement with media experiences, as well as the lack of a relationship between demographic characteristics and engagement, suggest that *PEG+CAT* appealed broadly to children and families in our sample, regardless of language or ethnic group. Parents and families were motivated to engage with study experiences and did so in high numbers. However, as one might expect in home environments, which are casual and varied, families engaged with the materials in highly idiosyncratic ways (in terms of frequency and sequence of experiences) that challenged the traditional ways that researchers typically consider fidelity and adherence to an intervention.

Results also suggest some implications for the design of the media experience. In particular, the degree of variation among treatment families—how much and in what order they chose to engage with the *PEG+CAT* media—is noteworthy because it brings into focus the question of how much the sequencing or ordering of particular resources matters when it comes to the acquisition of particular skills, like knowledge of 3-D shapes.

The research team was exacting in the selection of *PEG+CAT* videos and games that focused on target skills and used strategies known to make educational media most effective. Researchers organized these resources into an adventure, during which concepts were introduced and then reinforced over the duration of the study. While most families did not follow the recommended sequence, children in the PBS KIDS group improved in their understanding of certain mathematical skills, in contrast to children in a business as usual comparison group. Moreover, the *PEG+CAT*

resources that received the most views included videos and games that emphasized the mathematical skill areas in which children improved the most. These two findings suggest that the specific order of a media experience may be less important than one that provides children with repeated opportunities to engage with multiple videos and games as they practice and master a focused set of skills.

Timing may be a consideration for curation and sequencing as well. It may be the case that in shorter-term studies such as this one, sequencing is less important because the focus on particular skills is more constrained. Over longer stretches of time, when children's learning extends across a broader number of content and skill domains, efforts to curate resources would benefit from close attention to how media is taken up in homes and the opportunities for learning that currently exist, as well as the order in which a child or family engages with particular resources so that children reinforce a particular skill in increasingly sophisticated ways over time, and transfer their learning to other contexts.

Findings in the domain of families' uptake of materials point to the need for media producers, educators, and researchers to (a) improve their understanding of families' current practices around media and the learning purposes served by media, (b) design for the conditions under which media can promote different kinds of learning, and (c) develop and disseminate resources to help families use media in a manner that fosters different kinds of learning for children.

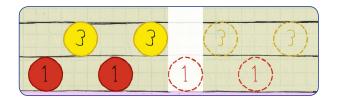
Future Research

Consistent with the overarching research goal of the *Ready To Learn Initiative*—collecting evidence on how best to use finite resources to support children and families living in poverty experience success in learning—this study suggests a number of areas that call for investment in further research.

- Research on intergenerational engagement and conditions supportive of collaborative experiences. There is much more to learn about how parents, siblings and other family members support children's learning with media and technology resources. In particular, the field needs increasingly detailed data on the social conditions that influence family routines involving public and commercial resources, and how these routines may catalyze and support learning.
- Research on gateways between informal and formal learning environments. Early mathematics learning, as with science and learning in other disciplines, requires young children to have multiple experiences with skills and concepts in different settings over time. There is much more to understand about how children can move between home and preschool (as well as among car/train rides and grocery store/laundromat visits) and how the adults in their lives can use these as connected, rather than isolated, opportunities for children's engagement and learning.
- Research on family engagement and strategies that support caregivers' understanding of young children's learning. Video, texting, and audio clips all are potential pathways for reaching the adults in young children's lives with tools and resources for promoting children's learning. Programs that target early learning

will benefit from a better understanding of how to use digital and social media to reach adults and help them understand the specific learning goals and challenges that young children face.

- Research on the efficacy of various supports to help parents and families engage with resources. Uses of text messaging, video modeling, and socially networked environments are emerging and are little understood. Formative studies, as well as rapid-cycle evaluation research, will help identify how to leverage particular tools for parent/caregiver learning.
- Continued development of early mathematics assessments. Given the inexact match between the
 requirements of studies such as this one that focus on intensive, brief interventions emphasizing a specific set
 of early mathematics skills and current standardized assessments that assume development of a broader set of
 skills over the course of a school year, the creation and validation of new assessments that include subscales for
 individual skills (like pattern creation and pattern continuation) continues to be an important priority.
- Research on content design. While this study expended considerable effort to select and sequence specific content in a particular way, further study about how children engage with resources and how they experience concept introduction and practice opportunities will help guide continuing development efforts that lead to best learning outcomes for children.
- Research on the role of media and social and emotional learning. In designing the intervention and in measuring impact, this study focused primarily on mathematics learning and only secondarily on social and emotional learning skills. Future research should examine more closely how targeted strategies for social and emotional learning translate into dispositional changes in persistence, problem solving, and self-regulation, and the role of media to support these skills. There is much to discover about how young children's learning is influenced by narrative structures that unfold over time and across platforms, relationships children form with individual characters, and emerging interactive feature sets available via new technology devices.



References

- Anderson, D. R., Bryant, J., Wilder, A., Santomero, A., Williams, M., & Crawley, A. M.(2000). Researching Blue's Clues: Viewing behavior and impact. *Media Psychology, 2*(2), 179–194.
- Austin, E. W. (2001). Effects of family communication on children's interpretation of television. *Television and the American Family, 2*, 377–396.
- Banks, J. A. (2007). *Learning in and out of school in diverse environments: Life-long, life-wide, life-deep.* LIFE Center, University of Washington, Stanford University, and SRI International.
- Block, J. H., & Block, J. (1980). The role of ego-control and ego-resiliency in the organization of behavior. In W. A. Collins (Ed.), *Development of cognition, affect, and social relations: The Minnesota Symposia on Child Psychology, Vol. 13* (pp. 39–101). Hillsdale, NJ: Erlbaum.
- Clements, D. H., & Sarama, J. (2004). Learning trajectories in mathematics education. *Mathematical thinking and learning*, 6(2), 81-89.
- Crawley, A. M., Anderson, D. R., Santomero, A., Wilder, A., Williams, M., Evans, M. K., & Bryant, J. (2002). Do children learn how to watch television? The impact of extensive experience with Blue's Clues on preschool children's television viewing behavior. *Journal of Communication, 52*, 264–80.
- DeNavas-Walt, C. & Proctor, B. (2015). U.S. Census Bureau, Current Population Reports, P60-252, *Income and Poverty in the United States: 2014*, U.S. Government Printing Office, Washington, DC.
- Dominguez, X., Vitiello, V. E., Maier, M. F., & Greenfield, D. B. (2010). A longitudinal examination of young children's learning behavior: Child-level and classroom-level predictors of change throughout the preschool year. *School Psychology Review*, 39, 29–47.
- Duncan, G. J., Dowsett, C. J., Claessens, A., Magnuson, K., Huston, A. C., Klebanov, P., Pagani, L., Feinstein, L., Engel, M., Brooks-Gunn, J., Sexton, H., Duckworth, K., & Japel, C. (2007). School readiness and later achievement. *Developmental Psychology*, 43, 1428–1446.
- Dunn, L. M., & Dunn, L. M. (1997). *Peabody Picture Vocabulary Test (3rd ed.).* Circle Pines, MN: American Guidance Service.
- Fantuzzo, J. W., Gadsden, V. L., & McDermott, P. A. (2011). An integrated curriculum to improve mathematics, language, and literacy for Head Start children. *American Educational Research Journal, 48*(3), 763–793.
- Fantuzzo, J. W., Coolahan, K., Mendez, J., McDermott, P., & Sutton-Smith, B. (1998). Contextually relevant validation of peer play constructs with African American Head Start children: Penn Interactive Peer Play Scale. *Early Childhood Research Quarterly*, 13,411–431.

Fantuzzo, J. W., & Hampton, V. R. (2000). Penn Interactive Peer Play Scale: A parent and teacher rating system for

young children. In K. Gitlin-Weiner, & A. Sandgrund (Eds.), *Play diagnosis and assessment* (2nd ed., pp. 599–620). New York, NY: Wiley.

- Fisch, S. M. (2004). *Children's learning from educational television: Sesame Street and beyond.* Mahwah, NJ: Lawrence Erlbaum Associates.
- Fisch, S. M., Akerman, A., Morgenlander, M., McCann Brown, S. K., Fisch, S. R., Schwartz, B. B., & Tobin, P. (2008). Coviewing preschool television in the US: Eliciting parent-child interaction via onscreen prompts. *Journal of Children and Media*, 2(2), 163–173.
- Gardner, M. F. (1990). The expressive one-word picture vocabulary test-revised. Novato, CA: Academic Therapy.
- George, J., & Greenfield, D. B. (2005). Examination of a structured problem-solving flexibility task for assessing approaches to learning in young children: Relation to teacher ratings and children's achievement. *Applied Development Psychology*, *26*(1), 69–84.
- Ginsburg, H. P., Lee, J. S., & Boyd, J. S. (2008). Mathematics education for young children: What it is and how to promote it. *Social Policy Report, 22*(1), 3–22.
- Gorges, T., Vidiksis, R., Christiano, E., Llorente, C. (April, 2014). *Aspirations and anxiety: Learning and home technology and media use by low-income families.* American Education Research Association. Philadelphia, PA.
- Hyson, M. (2008). *Enthusiastic and engaged learners: Approaches to learning in the early childhood classroom.* New York: Teachers College Press and Washington, DC: NAEYC.
- Hill, J. C., Bloom, H. S., Black, A. R., & Lipsey, M. W. (2008). Empirical benchmarks for interpreting effect sizes in research. *Child Development Perspectives*, 2, 172–177.
- Hyson, M. (2008). *Enthusiastic and engaged learners: Approaches to learning in the early childhood classroom.* New York: Teachers College Press and Washington, DC: NAEYC.
- IBM Corp. (2010). IBM SPSS Statistics for Windows, Version 19.0. Armonk, NY: IBM Corp.
- Jennings, N., Hunt, K., Altenau, M. & Linebarger, D. L. (2008). *Electric Company: Children's parasocial relationships and loneliness. A final report prepared for the Corporation for Public Broadcasting.* Philadelphia, PA: Annenberg School for Communication, University of Pennsylvania.
- Jones, D. E., Greenberg, M., & Crowley, M. (2015). Early Social-Emotional Functioning and Public Health: The Relationship Between Kindergarten Social Competence and Future Wellness. *American journal of public health*, (0), e1-e8.
- Kagan, S. L., Moore, E., & Bredekamp, S. (Eds.) (1995). *Reconsidering children's early learning and development: Toward shared beliefs and vocabulary.* Washington, DC: National Education Goals Panel.
- Kearney, M. S., & Levine, P. B. (2015). *Early Childhood Education by MOOC: Lessons from Sesame Street (No. w21229)*. National Bureau of Economic Research.
- Lee, V. E., & Burkham, D. T. (2002). *Inequality at the starting gate: Social background differences in achievement as children begin school.* Washington, D.C.: Economic Policy Institute.
- Linebarger, D. L., Kosanic, A. Z., Greenwood, C. R., & Doku, N. S. (2004). Effects of viewing the television program Between the Lions on the emergent literacy skills of young children. *Journal of Educational Psychology*, 96(2), 297.
- Linebarger, D. L., & Piotrowski, J. T. (2006). Pinky Dinky Doo: Evaluating the educational impact and appeal of Pinky Dinky Doo on preschool children. In *A final report to Sesame Workshop*. Philadelphia, PA: Annenberg School for Communication.

- McCarthy, B., Li, L., & Tiu, M. (2012). *PBS KIDS mathematics transmedia suites in preschool homes: A report to the CPB-PBS Ready To Learn Initiative.* San Francisco, CA: WestED.
- McDermott, P. A., Green, L. F., Francis, J. M., & Stott, D. H. (2000). *Preschool learning behaviors scale*. Philadelphia: Edumetric and Clinical Science.
- Media and Learning Group at SRI Education. (2010). *Joint media engagement and learning*. Menlo Park, CA: SRI International.
- Moorthy, S., Dominguez, X., Llorente, C., Lesk, H., Pinkerton, L., & Christiano, E. (2013, April). *Joint engagement with media for preschool science.* Paper presented at the Annual Meeting of the American Education Research Association, San Francisco, CA.
- Muthén, L. K., & Muthén, B. O. (2014). *Mplus user's guide. Statistical analysis with latent variables.* Version 7. Los Angeles, CA: Muthén & Muthén. Retrieved from http://stat-model.com
- National Association for the Education of Young Children. (2012). *The Common Core State Standards: Caution and opportunity for early childhood education.* Washington, DC: National Association for the Education of Young Children
- National Mathematics Advisory Panel. (2008). *Foundations for success: The final report of the National Mathematics advisory panel.* Washington, D.C.: National Research Council.
- Paek, I., & Han, K. T. (2012). IRTPRO 2.1 for Windows (item response theory for patient-reported outcomes). Applied Psychological Measurement, 0146621612468223. Retrieved from http://apm.sagepub.com/content/ early/2012/12/11/0146621612468223.
- Pasnik, S., & Llorente, C. (2013). Preschool teachers can use a PBS KIDS transmedia curriculum supplement to support young children's mathematics learning: Results of a randomized controlled trial. New York. Education Development Center.
- Penuel, W. R., Bates, L., Gallagher, L. P., Pasnik, S., Llorente, C., Townsend, E., & VanderBorght, M. (2012). Supplementing literacy instruction with a media-rich intervention: Results of a randomized controlled trial. Early Childhood Research Quarterly, 27(1), 115–127.
- Putnam, R. (2015). Our Kids: The American Dream in Crisis. New York, NY: Simon & Schuster
- Richert, R. A., Robb, M. B., & Smith, E. I. (2011). Media as social partners: The social nature of young children's learning from screen media. *Child Development*, 82(1), 82-95.
- Reiser, R. A., Tessmer, M. A., & Phelps, P. C. (1984). Adult-child interaction in children's learning from Sesame Street. *Educational Technology Research and Development, 32*(4), 217–223.
- Renninger, K. A. (2000). Individual interest and its implications for understanding intrinsic motivation. In C. Sansone & J.
 M. Harackiewicz (Eds.), *Intrinsic and extrinsic motivation: The search for optimal motivation and performance* (pp. 373–404). San Diego, CA: Academic Press.
- Richert, R. A., Robb, M. B., & Smith, E. I. (2011). Media as social partners: The social nature of young children's learning from screen media. *Child Development*, 82(1), 82–95.
- Rideout, V. J. (2014). *Learning at home: Families' educational media use in America. A report of the Families and Media Project.* New York, NY: The Joan Ganz Cooney Center at Sesame Workshop.
- Rideout, V. J. (2013). Zero to eight: Children's media use in America 2013: A Common Sense Media research study. Retrieved from https://www.commonsensemedia.org/research/zero-to-eight-childrens-media-use-in-america-2013

- Rideout, V. J., & Hamel, E. (2006). The media family: Electronic media in the lives of infants, toddlers, preschoolers and their parents. Menlo Park, CA: Kaiser Family Foundation.
- Rideout, V. J., Vandewater, E. A., & Wartella, E. A. (2003). Zero to six: Electronic media in the lives of infants, toddlers and preschoolers. Menlo Park, CA: Kaiser Family Foundation.
- Rimm-Kaufman, S. E., La Paro, K. M., Downer, J. T., & Pianta, R. C. (2005). The contribution of classroom setting and quality of instruction to children's behavior in kindergarten classrooms. *The Elementary School Journal*, 105(4), 377–394.
- Schiappa, E., Allen, M., & Gregg, P. B. (2007). Parasocial relationships and television: A meta-analysis of the effects. In R. W. Preiss (Ed.), *Mass media effects research: Advances through meta-analysis* (pp. 301–314). New York, NY: Routledge.
- Spybrook, J., Bloom, H., Congdon, R., Hill, C., Martinez, A., Raudenbush, S., & TO, A. (2011). Optimal design plus empirical evidence: Documentation for the "Optimal Design" software. *William T. Grant Foundation*. Retrieved on August, 1, 2012.
- Stevens, R., & Penuel, W. R. (2010, October). Studying and fostering learning through joint media engagement. In Principal Investigators Meeting of the National Science Foundation's Science of Learning Centers, October, Arlington, VA (pp. 1-75).
- Starkey, P., Klein, A., & Wakeley, A. (2004). Enhancing young children's mathematical knowledge through a prekindergarten mathematics intervention. *Early Childhood Research Quarterly, 19*, 99–120.
- Stipek, D., & Seal, K. (2001). Motivated minds: Raising children to love learning. New York, NY: Holt..
- Takeuchi, L., & Stevens, R. (2012). *The new coviewing: Designing for learning through joint media engagement.* New York, NY: Joan Ganz Cooney Center at Sesame Workshop.
- Troseth, G. L., Saylor, M. M., & Archer, A. H. (2006). Young children's use of video as a source of socially relevant information. *Child Development*, *77*(3), 786–799.
- U.S. Department of Health and Human Services. (2010). *Head Start Early Learning Outcomes Framework*. Washington, DC: Author.
- Valkenburg, P. M., Krcmar, M., Peeters, A. L., & Marseille, N. M. (1999). Developing a scale to assess three styles of television mediation: "Instructive mediation," "restrictive mediation," and "social coviewing". *Journal of Broadcasting & Electronic Media*, 43(1), 52–66.
- Warren, R. (2005). Parental mediation of children's television viewing in low income families. *Journal of Communication*, 55(4), 847–863.
- Wigfield, A., Eccles, J. S., Schiefele, U., Roeser, R., & Davis-Kean, P. (2006). Development of achievement motivation. In W. Damon (Series Ed.) & N. Eisenberg (Volume Ed.), *Handbook of child psychology, 6th Ed. Vol. 3. Social, emotional, and personality development* (pp. 933–1002). New York: Wiley.
- Wigfield, A. & Eccles, J. (2002). The development of achievement motivation. San Diego, CA: Academic Press.
- Wilcoxon, F. (1945). Individual comparisons by ranking methods. *Biometrics bulletin*, 80–83.
- York, B. N, & Loeb, S. (November, 2014). One step at a time: The effects of an early literacy text messaging program for parents of preschoolers. (NBER Working Paper No. 20659). Cambridge, MA: National Bureau of Economic Research.



Appendices

- Appendix A. Sample Characteristics
- Appendix B. Model Fit
- Appendix C. Classical Item Analysis Results
- Appendix D. Exploratory Factor Analysis
- Appendix E. Confirmatory Factor Analysis
- Appendix F. Reliability
- Appendix G. Descriptives for Child Assessment
- Appendix H. Results for Main Impact Models
- Appendix I. PEG+CAT Resources Included in the Intervention
- Appendix J. Study Website
- Appendix K. Weekly Adventure Schedule Poster
- Appendix L. Technology Set-up
- Appendix M. Child Pre-Assessment
- Appendix N. Child Post-Assessment
- Appendix O. Preschool Learning Behaviors Scale
- Appendix P. Math Concepts and Problem Solving
- Appendix Q. Parent Pre-Survey
- Appendix R. Parent Post-Survey
- Appendix S. PBS KIDS Media Diary
- Appendix T. Business as Usual Media Diary
- Appendix U. Home Visit 1 Protocol
- Appendix V. Home Visit 2 Protocol
- Appendix W. Focus Group Protocol

Appendix A. Sample Characteristics

Table A1. Race/Ethnicity of Home Visit Families

Race/Ethnicity	A	11	PBS k	(IDS	Business	as Usual
	n	%	n	%	n	%
Hispanic/Latino	8	40	3	30	5	50
Black/African American	5	25	3	30	2	20
Asian	1	5	1	10	0	0
Multi-racial	5	25	2	20	3	30
Missing	1	5	1	10	0	0

Table A2. Sample Demographics and Descriptive Statistics by Condition

Maternal EducationHS Diploma/GED5829.442928.712930.21More than HS Diploma/GED7035.533837.623233.33Paternal EducationLess than HS Diploma/GED7337.063635.643738.54HS Diploma/GED5628.432928.712728.13More than HS Diploma4422.342524.751919.79Less than \$25,00010151.795252.004951.58\$25,000-\$74,00094.6233.0066.32\$10,000 or more21.0311.001.05\$10,000 or more24.674342.574951.04Pes84.0665.9422.08Number of Languages at151.795554.464647.92233.0066.597187.921.04Mumber of Languages at151.795554.464040.001.0151.715554.464647.922.051.0440.001.0151.715554.464040.004040.001.01.04151.715554.464047.921.0440.001.01.04151.715554.46405049.504040.001.01.04151.71		Demographic Information	P	AII	F	PBS		ness as sual
Maternal EducationHS Diploma/GED5829.442928.712930.21More than HS Diploma7035.533837.623233.33Paternal EducationLess than HS Diploma/GED7337.063635.643738.54HS Diploma/GED5628.432928.712728.73More than HS Diploma4422.342524.751919.79Cotal Household Income24.5031.0151.795252.004951.58\$50,000-\$49,0007136.414040.003132.6335.0003636.3230.0663.24\$50,000-\$74,00094.6233.00663.242928.712228.7128IEP or 504 PlanYes84.0665.94228.742928.742928.742928.74Mumber of Languages11.01 <t< th=""><th></th><th></th><th>n</th><th>%</th><th>n</th><th>%</th><th>n</th><th>%</th></t<>			n	%	n	%	n	%
Index than HS Diploma7035.533837.623233.33Paternal EducationLess than HS Diploma/GED7337.063635.643738.54HS Diploma/GED5628.432928.712728.33More than HS Diploma4422.342524.751919.79Less than \$25,00010151.795252.004951.58\$25,000-\$49,0007136.414040.003132.63\$50,000-\$74,00094.62330.00663.22\$50,000-\$74,00094.62330.00663.22\$50,000-\$74,00094.62330.00663.22\$50,000-\$74,00094.62330.00663.22\$10094.62330.00663.2230.00\$10094.62330.00663.22\$10094.621.0011.00110.00\$10094.621.0011.00110.00\$10094.621.00650.9051.4440.0050.44\$10091.0151.2755.554.4640.9050.4050.40\$10091.0151.2755.554.4640.9050.4050.40\$10091.011.011.011.011.011.011.011.01 <td></td> <td>Less than HS Diploma/GED</td> <td>65</td> <td>32.99</td> <td>32</td> <td>31.68</td> <td>33</td> <td>34.38</td>		Less than HS Diploma/GED	65	32.99	32	31.68	33	34.38
Paternal EducationLess than HS Diploma/GED7337.063635.643738.54HS Diploma/GED5628.432928.712728.73More than HS Diploma4422.342524.751919.79Total Household Income\$25,000-\$49,0007136.414040.003132.63\$50,000-\$74,00094.6233.0066.32\$50,000-\$74,00094.6233.0066.32\$100,000 or more21.0311.0011.05Per788.4.0665.9422.08Number of Languages at Home1051.275554.464647.92300021.021.021.031.01.001.04Mandarin Chinese Only21.022.1322.42.371.01.05Mandarin Chinese Only73.551.0.906.62.591.151.05Chter Only73.551.0.906.62.591.01.041.05Mandarin Chinese Only21.055.049.504041.671.04Mandarin Chinese Only73.551.0.906.62.59Guish and Spanish9045.695049.504041.67Inglish and Mandarin Chinese and Other1.510011.04Mandarin Chinese and Othe	Maternal Education	HS Diploma/GED	58	29.44	29	28.71	29	30.21
Paternal EducationHS Diploma/GED5628.432928.712728.73More than HS Diploma4422.342524.751919.79Less than \$25,00010151.795252.004951.58\$25,000-\$49,0007136.414040.003132.63\$50,000-\$74,00094.6233.0066.32\$10,000 or more21.0311.0011.05HEP or 504 PlanYes84.0665.9422.08Number of Languages at151.275554.464647.923366.2910151.275554.464647.9233151.275554.464647.923321.0311.9966.253321.0221.9800.0033151.275554.464647.9233321.9821.981.996421.0221.0221.981.9966.2533321.981.9966.251.9966.253331.9965.941.9966.251.9966.25433333333 <td< td=""><td></td><td>More than HS Diploma</td><td>70</td><td>35.53</td><td>38</td><td>37.62</td><td>32</td><td>33.33</td></td<>		More than HS Diploma	70	35.53	38	37.62	32	33.33
More than HS Diploma442.342524.751919.79Total Household IncomeLess than \$25,00010151.795252.004951.58\$25,000-\$49,0007136.414040.003132.63\$50,000-\$74,00094.6233.0066.32\$100,000 rmore21.0311.0011.05 IEP or 504 Plan Yes84.0665.9422.08Number of Languages at11.011.011.011.011.011.011.0113.016.196.16.196.16.106.16.106.106.10Burger of Languages at11		Less than HS Diploma/GED	73	37.06	36	35.64	37	38.54
Total Household Income (2013)Less than \$25,00010151.795252.004951.58\$50,000-\$74,00094.6233.0066.32\$50,000-\$74,00094.6233.0066.32\$100,000 or more21.0311.0011.05IEP or 504 PlanYes84.0665.9422.08Number of Languages at Home151.275554.464647.92321.0151.275554.464647.923321.0221.9800.003321.0221.9800.00351.5154.4647.921.0221.9800.00351.5154.4647.921.0221.9800.0033321.9800.0011.458Mandarin Chinese Only201.01587.921212.50Other Only73.551.9966.25English and Spanish9045.695049.504041.67English and Chher42.031.9933.13Mandarin Chinese and Other1.510011.04Mandarin Chinese and Other1.510011.04Mandarin Chinese and Other1	Paternal Education	HS Diploma/GED	56	28.43	29	28.71	27	28.13
Total Household Income\$25,000-\$49,0007136.414040.003132.63\$50,000-\$74,00094.6233.0066.32\$100,000 r more21.0311.0011.05IEP or 504 PlanYes84.0665.9422.08Number of Languages at Home15.976160.406971.881246.704342.574951.042210151.275554.464647.923321.0221.9800.00351.0221.9800.000351.0221.9800.000410.151.275554.464647.92351.0221.9800.000365.941.900.0001.15465.91.91.966.251.955554.91.151.91.15561.151.91.966.25563.0543.9622.08663.0543.9622.08663.0543.9622.08663.0543.9622.08765.95<		More than HS Diploma	44	22.34	25	24.75	19	19.79
(2013) \$50,000-\$74,000 9 4.62 3 3.00 6 6.32 \$100,000 rmore 2 1.03 1 1.00 1 1.05 IEP or 504 Plan Yes 8 4.06 6 5.94 2 2.08 No 130 65.99 61 60.40 69 71.88 Number of Languages at Home 1 101 51.27 55 54.46 46 47.92 3 2 1.02 2 1.98 0 0.00 Jampanes at Home English Only 42 21.32 24 23.76 18 18.75 Spanish Only 24 12.18 10 9.90 14 14.58 Mandarin Chinese Only 20 10.15 8 7.92 12 12.50 Other Only 7 3.55 1 9.99 6 6.25 English and Spanish 90 45.69 50 49.50 40 41.67 English and Other 4 2.03 1 9.99 3 3.13		Less than \$25,000	101	51.79	52	52.00	49	51.58
Item 1 Item 1<	Total Household Income	\$25,000-\$49,000	71	36.41	40	40.00	31	32.63
IEP or 504 PlanYes84.0665.9422.08No13065.996160.406971.88Number of Languages at19246.704342.574951.04221.025554.464647.92321.0221.9800.00Approx21.022423.761818.75Spanish Only2412.18109.901414.58Mandarin Chinese Only2010.1587.921212.50Other Only73.551.9966.25English and Spanish9045.695049.504041.67English and Other42.031.9933.13Mandarin Chinese and Other1.510011.04Mandarin Chinese and Other1.510011.04Mandarin Chinese and Other1.510011.04Mandarin Chinese and Other1.510011.04Mandarin Chinese and Other1.510022.08Hispanic/Latino11256.855958.425355.71Black/African American2512.691514.851010.42	(2013)	\$50,000-\$74,000	9	4.62	3	3.00	6	6.32
IEP or 504 Plan No 130 65.99 61 60.40 69 71.88 Number of Languages at Home 1 92 46.70 43 42.57 49 51.04 2 101 51.27 55 54.46 46 47.92 3 2 1.02 2 1.98 0 0.00 Mumber of Languages at Home 2 1.02 2 1.98 0 0.00 3 2 1.02 2 1.98 0 0.00 Spanish Only 24 21.32 24 23.76 18 18.75 Spanish Only 24 12.18 10 9.90 14 14.58 Mandarin Chinese Only 20 10.15 8 7.92 12 12.50 Other Only 7 3.55 1 .99 6 6.25 English and Mandarin Chinese 0 3.05 4 3.96 2 2.08 English and Other		\$100,000 or more	2	1.03	1	1.00	1	1.05
No 130 65.99 61 60.40 69 71.88 Number of Languages at Home 1 92 46.70 43 42.57 49 51.04 2 101 51.27 55 54.46 46 47.92 3 2 1.02 2 1.98 0 0.00 3 5 54.46 46 47.92 3.55 54.46 46 47.92 3 2 1.02 2 1.98 0 0.00 4 5 5 5.4.6 46 47.92 5 5 5 4.6 4.5 9 0 0.00 5 5 5 5 4.5 9 9 14 14.58 6 0.01 7 3.55 1 .99 6 6.55 6 101 45.69 50 49.50 40 41.67 10 10 4 2.03	IED or E04 Diam	Yes	8	4.06	6	5.94	2	2.08
Number of Languages at Home210151.275554.464647.92321.0221.9800.00English Only4221.322423.761818.75Spanish Only2412.18109.901414.58Mandarin Chinese Only2010.1587.921212.50Other Only73.551.9966.25English and Spanish9045.695049.504041.67English and Mandarin Chinese63.0543.9622.08English and Other42.031.9933.13Mandarin Chinese and Other1.510011.04Mandarin Chinese and Other1.5103.952.08Hispanic/Latino11256.855958.4255.21Black/African American2512.691514.851010.42	IEP OF 504 PIdfi	No	130	65.99	61	60.40	69	71.88
Home 2 101 51.27 53 54.46 46 47.92 3 2 1.02 2 1.98 0 0.00 English Only 42 21.32 24 23.76 18 18.75 Spanish Only 24 12.18 10 9.90 14 14.58 Mandarin Chinese Only 20 10.15 8 7.92 12 12.50 Other Only 7 3.55 1 .99 6 6.25 English and Spanish 90 45.69 50 49.50 40 41.67 English and Mandarin Chinese 6 3.05 4 3.96 2 2.08 English and Other 4 2.03 1 .99 3 3.13 Mandarin Chinese and Other 1 .51 0 0 1 1.04 Mandarin Chinese and Other 1 .51 0 0 1 1.04 Mandarin Chinese and Other 1		1	92	46.70	43	42.57	49	51.04
A21.0221.9800.00English Only4221.322423.761818.75Spanish Only2412.18109.901414.58Mandarin Chinese Only2010.1587.921212.50Other Only73.551.9966.25English and Spanish9045.695049.504041.67English and Other63.0543.9622.08English and Other1.510011.04Mandarin Chinese and Other1.510011.04Mandarin Chinese and Other11.510011.04Mandarin Chinese and Other11256.855958.425355.21Black/African American2512.691514.851010.42		2	101	51.27	55	54.46	46	47.92
Approximate Spanish Only 24 12.18 10 9.90 14 14.58 Mandarin Chinese Only 20 10.15 8 7.92 12 12.50 Other Only 7 3.55 1 .99 6 6.25 English and Spanish 90 45.69 50 49.50 40 41.67 English and Mandarin Chinese 6 3.05 4 3.96 2 2.08 Mandarin Chinese and Other 1 .51 0 0 1 1.04 Mandarin Chinese and Other 1 .51 0 0 1 1.04 Mandarin Chinese and Other 1 .51 0 0 1 1.04 Mandarin Chinese and Other 1 .51 0 0 1 1.04 Mandarin Chinese and Other 1 .51 0 0 1 1.04 Mandarin Chinese and Other 1 .51 0 0 1 1.04 <t< td=""><td>nome</td><td>3</td><td>2</td><td>1.02</td><td>2</td><td>1.98</td><td>0</td><td>0.00</td></t<>	nome	3	2	1.02	2	1.98	0	0.00
Mandarin Chinese Only 20 10.15 8 7.92 12 12.50 Other Only 7 3.55 1 .99 6 6.25 English and Spanish 90 45.69 50 49.50 40 41.67 English and Mandarin Chinese 6 3.05 4 3.96 2 2.08 English and Other 4 2.03 1 .99 3 3.13 Mandarin Chinese and Other 1 .51 0 0 1 1.04 Mandarin Chinese and Other 1 .51 0 0 1 1.04 Mandarin Chinese and Other 1 .51 0 0 1 1.04 Mandarin Chinese and Other 1 .51 0 0 1 1.04 Mandarin Chinese and Other 1 .51 0 0 1 1.04 Mandarin Chinese and Other 1 .51 0 0 1 1.04 Black/African American		English Only	42	21.32	24	23.76	18	18.75
Languages Other Only 7 3.55 1 .99 6 6.25 English and Spanish 90 45.69 50 49.50 40 41.67 English and Mandarin Chinese 6 3.05 4 3.96 2 2.08 English and Other 4 2.03 1 .99 3 3.13 Mandarin Chinese and Other 1 .51 0 0 1 1.04 Mandarin Chinese and Other 1 .51 0 0 1 1.04 Hispanic/Latino 112 56.85 59 58.42 53 55.21 Black/African American 25 12.69 15 14.85 10 10.42		Spanish Only	24	12.18	10	9.90	14	14.58
Languages English and Spanish 90 45.69 50 49.50 40 41.67 English and Mandarin Chinese 6 3.05 4 3.96 2 2.08 English and Other 4 2.03 1 .99 3 3.13 Mandarin Chinese and Other 1 .51 0 0 1 1.04 Non-Hispanic White/Caucasian 4 2.03 2 1.98 2 2.08 Hispanic/Latino 112 56.85 59 58.42 53 55.21 Black/African American 25 12.69 15 14.85 10 10.42		Mandarin Chinese Only	20	10.15	8	7.92	12	12.50
English and Spanish 90 45.69 50 49.50 40 41.67 English and Mandarin Chinese 6 3.05 4 3.96 2 2.08 English and Other 4 2.03 1 .99 3 3.13 Mandarin Chinese and Other 1 .51 0 0 1 1.04 Non-Hispanic White/Caucasian 4 2.03 2 1.98 2 2.08 Hispanic/Latino 112 56.85 59 58.42 53 55.21 Black/African American 25 12.69 15 14.85 10 10.42	Languages	Other Only	7	3.55	1	.99	6	6.25
English and Other 4 2.03 1 .99 3 3.13 Mandarin Chinese and Other 1 .51 0 0 1 1.04 Non-Hispanic White/Caucasian 4 2.03 2 1.98 2 2.08 Hispanic/Latino 112 56.85 59 58.42 53 55.21 Black/African American 25 12.69 15 14.85 10 10.42	Languages	English and Spanish	90	45.69	50	49.50	40	41.67
Mandarin Chinese and Other 1 .51 0 0 1 1.04 Non-Hispanic White/Caucasian 4 2.03 2 1.98 2 2.08 Hispanic/Latino 112 56.85 59 58.42 53 55.21 Black/African American 25 12.69 15 14.85 10 10.42		English and Mandarin Chinese	6	3.05	4	3.96	2	2.08
Non-Hispanic White/Caucasian 4 2.03 2 1.98 2 2.08 Hispanic/Latino 112 56.85 59 58.42 53 55.21 Black/African American 25 12.69 15 14.85 10 10.42		English and Other	4	2.03	1	.99	3	3.13
Race/Ethnicity Hispanic/Latino 112 56.85 59 58.42 53 55.21 Black/African American 25 12.69 15 14.85 10 10.42		Mandarin Chinese and Other	1	.51	0	0	1	1.04
Race/Ethnicity Black/African American 25 12.69 15 14.85 10 10.42		Non-Hispanic White/Caucasian	4	2.03	2	1.98	2	2.08
Black/African American 25 12.69 15 14.85 10 10.42	Dece/Ethnicity	Hispanic/Latino	112	56.85	59	58.42	53	55.21
Asian 37 18.78 18 17.82 19 19.79	Race/Ethnicity	Black/African American	25	12.69	15	14.85	10	10.42
		Asian	37	18.78	18	17.82	19	19.79

Appendix B. Model Fit

Table B1. EFA and CFA model fit

Value		
EFA	CFA	
987.001	1386.112	
817	899	
< 0.001	< 0.001	
0.031	0.053	
0.023, 0.037	0.048, 0.059	
1.000	0.155	
0.891	0.779	
0.874	0.768	
0.120	1.351	
	EFA 987.001 817 < 0.001 0.031 0.023, 0.037 1.000 0.891 0.874	

Appendix C. Classical Item Analysis Results

Table C1. Item Characteristics for Factor 1

		Pretest		Posttest	
ltem No.	Item Stem	Difficulty	Discrimination	Difficulty	Discrimination
Ordi	nal Numbers				
1	Point to the pig first in line, the cow second in line, and the chicken third in line.	0.40	0.23	0.49	0.38
6a	Point to the child who is first in line.	0.65	0.29	0.79	0.24
6b	Point to the child who is third in line.	0.11	0.37	0.19	0.57
6c	Point to the child who is fifth in line.	0.16	0.19	0.25	0.45
13a	Point to the dinosaur that is fourth in line.	0.10	0.34	0.21	0.46
13b	Now, point to the dinosaur that is second in line.	0.49	0.16	0.43	0.30
18a	I want to go to the fifth floor. What button should I press?	0.11	0.37	0.25	0.48
18b	Next, I want to go to the third floor. What button should I press?	0.16	0.29	0.27	0.53
18c	Then, I want to go to the seventh floor. What button should I press?	0.37	0.37	0.53	0.46
18d	Next, I want to go to the second floor. What button should I press?	0.17	0.20	0.22	0.44
3D Sł	napes				
8a	Point to the object that looks like a sphere.	0.13	0.08	0.19	0.32
8b	Point to the object that looks like a cone.	0.38	0.35	0.45	0.43
8c	Point to the object that looks like a cube.	0.23	0.35	0.39	0.46
8d	Point to the object that looks like a cylinder.	0.40	029	0.51	0.38
22a	Find the sphere.	0.22	0.02	0.23	0.24
22b	Find the pyramid.	0.31	0.28	0.48	0.39
22c	Find the cube.	0.30	0.30	0.45	0.42
22d	Find the rectangular prism.	0.37	0.35	0.51	0.40
Spati	tal Relationships				
23a	Point to the child standing in front of the table.	0.42	0.30	0.49	0.17
23b	Point to the child standing behind the table.	0.37	0.31	0.43	0.29
23c	Point to the child standing next to the table.	0.55	0.42	0.62	0.40

Table C2. Item Characteristics for Factor 2

		P	retest	P	osttest
ltem No.	Item Stem	Difficulty	Discrimination	Difficulty	Discrimination
Measu	urable Attributes				
2	Point to the person who is holding the heaviest bag.	0.76	0.33	0.91	0.29
4	Point to the building that is the tallest.	0.75	0.45	0.87	0.37
9	Point to the monkey that is the highest	0.84	0.38	0.93	0.29
11	Find the pair of shoes that best fits each person's feet.	0.95	0.12	0.98	0.20
Patter	n Creation				
15	Use these bears to make a pattern here.	0.41	0.45	0.61	0.33
16	Make a pattern here using these stars.	0.28	0.27	0.43	0.34
17a	Show me what comes next to finish the pattern.	0.71	0.38	0.83	0.32
17b	Now you keep going with the pattern.	0.56	0.48	0.73	0.35

Table C3. Item Characteristics for Factor 3

		Pretest		Posttest	
ltem No.	Item Stem	Difficulty	Discrimination	Difficulty	Discrimination
2-D Sha	apes				
Зa	(Point to the cone.) What is this shape?	0.10	0.17	0.13	0.25
3b	(Point to the cube.) What is this shape?	0.02	0.34	0.06	0.34
3c	(Point to the cylinder.) What is this shape?	0.06	0.48	0.16	0.42
12a	(Point to the triangle.) What is this shape?	0.47	0.30	0.62	0.32
12b	(Point to the rectangle.) What is this shape?	0.74	0.50	0.82	0.23
12c	(Point to the square.) What is this shape?	0.62	0.20	0.74	0.45
20a	Point to all the sides. (Shows three sides.)	0.44	0.24	0.56	0.30
20b	Point to all the sides. (Shows four sides.)	0.48	0.12	0.57	0.37
Counti	ng				
5	Use your finger to count how many frogs I have.	0.61	0.39	0.77	0.28
14	Count all of the bananas.	0.52	0.45	0.68	0.40
Patter	n Continuation				
7	Place the fruit that is missing here.	0.61	0.36	0.79	0.25
10a	Now, make the same pattern using your hands.	0.18	0.28	0.26	0.35
10b	Keep going (with the pattern).	0.14	0.24	0.21	0.34
21	Help me add cubes to continue this pattern.	0.54	0.46	0.68	0.40
19	Find the cube tower that is as tall as the block.	0.29	0.13	0.37	0.21

Appendix D. Exploratory Factor Analysis

	1 5		
	Factor 1	Factor 2	Factor 3
Factor 1	1.000		
Factor 2	0.146	1.000	
Factor 3	0.461	0.403	1.000

Table D1. Geomin Rotated Exploratory Factor Correlations

The correlations of the Geomin rotated factors listed in Table 1C range from 0.146 to 0.461. These results provide some discriminant validity for the utility of a three-factor solution.

Appendix E. Confirmatory Factor Analysis

Table E1. Confirmatory Factor Correlations

	Factor 1	Factor 2	Factor 3
Factor 1	1.000		
Factor 2	0.2556	1.000	
Factor 3	0.181	0.175	1.000

The results of the factor correlations from the confirmatory factor analysis further support the results from the Geomin rotated correlations in the exploratory factor analysis. The correlations listed in Table 1C range from 0.175 to 0.255. These correlations are smaller/weaker, which, again, provide discriminant validity for the proposed factors.

Table E2. Factor 1 Loadings

ltem	Estimate	S.E.
3a	0.508	0.114
3b	0.823	0.066
3c	0.838	0.073
5	0.461	0.098
7	0.433	0.093
10a	0.493	0.086
10b	0.550	0.143
12a	0.494	0.086
12b	0.413	0.096
12c	0.724	0.085
14	0.617	0.077
19	0.312	0.095
20a	0.378	0.096
20b	0.489	0.085
21	0.622	0.084

Table F3. Factor 2 Loadings

		0
ltem	Estimate	S.E.
2	0.619	0.103
4	0.774	0.093
9	0.681	0.159
11	0.595	0.164
15	0.613	0.083
16	0.663	0.084
17a	0.593	0.102
17b	0.453	0.069

Table E4. Factor 3 Loadings

ltem	Estimate	S.E.
1	0.495	0.073
6a	0.392	0.086
6b	0.908	0.042
6c	0.712	0.062
8a	0.511	0.107
8b	0.648	0.067
8c	0.660	0.066
8d	0.577	0.067
13a	0.759	0.070
13b	0.468	0.073
18a	0.757	0.061
18b	0.813	0.049
18c	0.676	0.056
18d	0.728	0.064
22a	0.409	0.097
22b	0.581	0.067
22c	0.610	0.066
22d	0.575	0.069
23a	0.504	0.066
23b	0.639	0.062
23c	0.573	0.072

Appendix F. Reliability

Table F1. Internal Consistent for Factors

		Cronbach's Coefficient Alpha		
Subscale	No. of Items	Pretest	Posttest	
Geometry and Counting	15	0.75	0.65	
Comparisons and Mathematical Patterns	8	0.70	0.65	
Cardinality and Shape	21	0.74	0.84	

Appendix G. Descriptives for Child Assessment

Table G1. Descriptive statistics using T-scores for the Math Assessment Scale Scores

		S PEG+CA Experience		(Compariso	on	F	ull Samp	le
Variable	Ν	Mean	Std. Dev	Ν	Mean	Std. Dev	Ν	Mean	Std. Dev
Factor 1: Ordinal Numb	pers, Spa	tial relatio	onships a	nd 3D S	hapes				
Pretest	91	48.43	7.23	84	49.03	10.31	175	48.72	8.82
Posttest*	91	54.77	10.63	84	49.30	10.24	175	52.14	10.77
Factor 2: Measurable A	ttributes	and Patt	ern Creat	ion					
Pretest	94	49.69	9.95	89	46.33	11.27	183	48.05	10.72
Posttest	94	53.29	7.97	89	52.56	8.93	183	52.94	8.44
Factor 3: Counting, 2D	Shapes a	nd Patter	n Continu	ation					
Pretest	98	48.60	9.77	87	48.85	10.01	185	48.71	9.86
Posttest	98	52.91	8.78	87	53.04	9.46	185	52.97	9.08

* p < 0.000

Appendix H. Results for Main Impact Models

Table H1. Findings from Main Impact Models

Impact Contrast	Ν	Coefficient	Hedges g (Effect Size)	Std. Error	р
Factor 1: Ordinal Numbers, Spatial relationships and 3D Shapes	172	5.26	0.51	1.12	0.000
Factor 2: Measurable Attributes and Pattern Creation	180	-1.02	-0.10	1.06	0.336
Factor 3: Counting, 2D Shapes and Pattern Continuation	182	-0.40	038	1.00	0.689

Table H2. Findings from Factor 1(Ordinal Numbers, Spatial relationships and 3D Shapes) Impact Model

Impact Contrast	Coefficient	Std. Error	Z ratio	р
Intercept	50.38	1.87	26.90	0.000
Condition – PBS KIDS vs. Business As Usual	5.26	1.12	4.68	0.000
Pretest	0.72	0.07	10.79	0.000
Home language – Other Only	-2.12	1.88	-1.13	0.260
Home language – Mixed Only	-3.21	1.56	-2.06	0.040
Mother – high school diploma	0.58	1.42	0.41	0.683
Mother – more than high school diploma	2.20	1.48	1.49	0.137
Child age	3.64	2.08	1.75	0.081
Child gender	0.30	1.14	0.26	0.792

Appendix I. PEG+CAT Resources Included in the Intervention

Table I1. PEG+CAT Resources Included in the Intervention

Week	Focal Skills	Weekly Adventure Schedule	Supplemental Resources
1	Primary: Ordinal Numbers; Counting Secondary: Measurable Attributes/Spatial Relations	 Full episode: <i>The Ring Problem</i> (124A) Video Clip: Interstitial 124, "Ordering by Size" Full episode: <i>The Wedding Problem</i> (124B) Online game: <i>Peg's Pizza Place</i> PBS KIDS Lab Activity: PEG+CAT Honey Cake 	 Full episode: <i>The Circus</i> <i>Problem</i> (105A) Full episode: <i>The Clown</i> <i>Problem</i> (121A) Online game: <i>Costume Box</i>
2	Primary: Patterns Secondary: Ordinal Numbers; 2D Shapes	 Full episode: <i>The Play Date Problem</i> (122A) Full episode: <i>The Beethoven Problem</i> (108B) Online game: <i>Chicken Dance</i> PBS KIDS Lab Activity: Home Collections 	 Full episode: <i>The Baby</i> <i>Problem</i> (112A) Full episode: <i>The Messy Room</i> <i>Problem</i> (102A) Online game: <i>Paint-a-Long</i>
3	Primary: 3D Shapes Secondary: 2D Shapes; Counting	 Full episode: <i>The Sparkling Sphere Problem</i> (112B) Online game: <i>Magical Shape Hunt</i> Video Clip: Interstitial 102, "Cylinders and Retangles Prisms" Full episode: <i>The Golden Pyramid Problem</i> (102B) PBS KIDS Lab Activity: PEG+CAT Stick Puppets 	 Full episode: <i>The Parade</i> <i>Problem</i> (113A) Full episode: <i>The Halloween</i> <i>Problem</i> (113B) Online game: <i>Costume Box</i>
4	Primary: Measurable Attributes/Spatial Relations Secondary: Counting	 Full episode: <i>The Big Dog Problem</i> (119A) Video Clip: Interstitial 119, "Peg Measures Cat's Height" Full episode: <i>The Buried Treasure Problem</i> (105B) Online game: <i>Rock Art</i> PBS KIDS Lab Activity: Super PEG+CAT Guy Activity Page 	 Full episode: <i>The Ring</i> <i>Problem</i> (124A) Full episode: <i>The Wedding</i> <i>Problem</i> (124B) Online game: <i>321 Snack</i>
5	Primary: Measurable Attributes/Spatial Relations; Ordinal Numbers Secondary: Counting	 Full episode: <i>The Tree Problem</i> (107A) Video Clip: Interstitial 107, "Ordering Spheres" Full episode: <i>Another Tree Problem</i> (107B) Video clip: "<i>The Long Line Problem</i>" (117B) Online game: <i>Hungry Pirates</i> 	 Full episode: <i>The Birthday</i> <i>Present Problem</i> (111B) Full episode: <i>The Election</i> <i>Problem</i> (123B) Online games: <i>Chicken Dance</i> <i>and Magical Shape Hunt</i>
6	Primary: Patterns; 2D Shapes and 3D Shapes Secondary: Counting	 Full episode: <i>The Doohicky Problem</i> (106B) Online game: <i>Chicken Blast Off</i> Video clips: <i>The Baby Problem</i> (112A) Video Clip: "The Messy Room Problem 1" (102A) Video Clip: "The Messy Room Problem 2" (102A) Big Gig app - Patterns Big Gig app - Magic Cylinder song 	 Full episode: <i>The Three Bears</i> <i>Problem</i> (104A) Full episode: <i>The Big Gig</i> <i>Problem</i> (110B) <i>Big Gig</i> app

Week	Focal Skills	Weekly Adventure Schedule	Supplemental Resources
7	Primary: Patterns; Measurable Attributes/ Spatial Relations Secondary: Counting	 Full episode: <i>The Dinosaur Problem</i> (108A) Online game: <i>Chicken Dance</i> Full episode: <i>The Penguin Problem</i> (109B) Parents Play and Learn app: Toy Hunt 	 Full episode: <i>The Arch Villain</i> <i>Problem</i> (120A) Full episode: <i>The Straight &</i> <i>Narrow Problem</i> (120B) Online game: <i>Chicken Blast Of</i>
8	Primary and Secondary: Ordinal Numbers; Counting; 2D Shapes and 3D Shapes	 Full episode: <i>The Big Gig Problem</i> (110B) <i>Big Gig</i> app - Cat Dance Video Clip: Interstitial 124, "Ordinal Numbers" Video clip: <i>The Beethoven Problem</i> 1 (108B) Video Clip: <i>The Straight & Narrow Problem</i> (120B) Video Clip: <i>The Golden Pyramid Problem</i> (102B) Online game: <i>Star Swiper</i> PBS KIDS Lab Activity: Chicken Coop Activity Page 	<i>Problem</i> (106A)3. Online game: <i>Peg's Pizza Place</i>4. <i>Big Gig</i> app
9	Primary: Measurable Attributes/Spatial Relations Secondary: Patterns; 2D and 3D Shapes	 Full Episode: <i>The Honey Problem</i> (109A) Video clip: <i>The Penguin Problem</i> (109B) Full episode: <i>The Cleopatra Problem</i> (115B) Video Clip: Interstitial 109 , "Weight" Online game: <i>Happy Camel</i> Parents Play and Learn app: How Heavy? 	 Full episode: The Chicken Problem (101A) Full episode: The Slop Problem (111A) Online game: Scrub-a-Dub Online game: Bubble Bath
10	Primary and Secondary: Patterns; 3D Shapes and 2D shapes	 Full episode: <i>The Blabberwocky Problem</i> (122B) Online game: <i>Chicken Dance</i> Video clip: <i>The Beethoven Problem</i> 2 (108B) Video Clip: <i>The Birthday Cake Problem</i> (106A) Video Clip: The Dinosaur Problem (108A) PBS KIDS Lab Activity: PEG+CAT Pirates' Great Banana Fruit Salad Parents Play and Learn app: Shapely Treats 	 Full episode: Yet Another Tree Problem (116A) Full episode: Romeo & Juliet (116B) PBS KIDS Lab Activity: Up, Down, All Around Location Words
11	Primary: Ordinal Numbers; Counting; 2D Shapes Secondary: Measurable Attributes/Spatial Relations	 Full episode: The Giant Problem (104B) Video clip: The Ring Problem 1 (124A) Video Clip: The Ring Problem 2 (124A) Video Clip: The Wedding Problem 1 (124B) Video Clip: The Wedding Problem 2 (124B) Online game: 321 Snack Online game: Paint-a-Long PBS KIDS Lab Activity: The PEG+CAT Doodle It Yourself Flipbook 	 Full episode: The Space Creature Problem (101B) Full episode: The Doohicky Problem (106B) Online game: Star Swiper
12	Primary: Patterns; Counting; Measurable Attributes/Spatial Relations Secondary: 3-D Shapes; Ordinal Numbers	 Full episode: The Ninja Problem (121B) Online game: The Hungry Pirates Video clip: Interstitial 107, "Ordering Spheres 2" Video clip: The Play Date Problem 1 (122A) Video clip: The Play Date Problem 2 (122A) Online game: Scrub-a-Dub Parents Play and Learn app: Bath Time is Math Time 	 Full episode: The Pirate Problem (103A) Full episode: The Buried Treasure Problem (105B) Online game: The Hungry Pirates

Table I1. PEG+CAT Resources Included in the Intervention (Continued)

Appendix J. Study Website

(?) (D) Tips Full Video	Game Video Clip App Activity
Week 1	? © 🖻 © 🎮 🗶
Week 2	? ````````````````````````````````````
Week 3	? O 🎮 🖻 O 🗶
Week 4	0 E 0 A X
Week 5	? 0 E 0 E X
Week 6	©¤:##.∏
Week 7	۵ 🎮 🖻 X
Week 8	0.66682%
Week 9	0 # 0 # A X
Week 10	◈◪▦▦▦淋淋
Week 11	0 E E A A X
Week 12	©aeeeax

Appendix K. Weekly Adventure Schedule Poster



Appendix L. Technology Set-up



Appendix M. Child Pre-Assessment

			Re		
	F	RTL Home Study	y Assessm	ient 2014	
	like this. 🔀 Choose	only one answer for each	question. If you w	mark the correct box with a /ant to change your answer u mean. Please print text a	r, just
	Child First Name:				
	Child Last Name:				
	Classroom Name:				
	Center Name:				
	Assessor Name:				
	Assessment Date (m	mddyyyy):			
L					
RTL (pre)	2014 Home Study Asses white		ernational for RTL. [ge 1 of 4	Do no duplicate without permit	ssion.
(pre)	2014			Do no duplicate without permis	ssion. "How do you know" and Incorrect child responses
(pre)	2014 ywhite	Pa	ge 1 of 4 Response	Incorrect	"How do you know" and
(pre)	2014) white Prompt Put the pig first in the line, the cow second in the line	Pa Correct Response A line with pig first; cow second;	ge 1 of 4 Response Code	Incorrect Response Code	"How do you know" and
(pre)	2014) white Prompt Put the pig first in the line, the cow second in the line and the chicken third in the line. Point to the person who is holding the	Pa Correct Response A line with pig first; cow second; chicken third	ge 1 of 4 Response Code 0 1 9	Incorrect Response Code	"How do you know" and
(pre)	2014 ywhite Prompt Put the pig first in the line, the cow second in the line and the chicken third in the line. Point to the person who is holding the heaviest bag.	Pa Correct Response A line with pig first; cow second; chicken third C	Response Code 0 1 0 1	Incorrect Response Code	"How do you know" and
(pre)	2014 2014 Prompt Put the pig first in the line, the cow second in the line and the chicken third in the line. Point to the person who is holding the heaviest bag. (Point to the cone) What is this shape?	Pa Correct Response A line with pig first; cow second; chicken third C C Cone	Response Code 0 1 9 0 1 9	Incorrect Response Code	"How do you know" and
(pre)	2014 2014 2014 Prompt Put the pig first in the line, the cow second in the line and the chicken third in the line. Point to the person who is holding the heaviest bag. (Point to the cone) What is this shape? (Point to the cube) What is this shape? (Point to the cylinder) What is this shape? Point to the building that is the tallest.	Pa Correct Response A line with pig first; cow second; chicken third C C Cone Cube	Response Code 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	Incorrect Response Code	"How do you know" and
(pre) Item 1 2 3a 3b 3c	2014 white Prompt Put the pig first in the line, the cow second in the line and the chicken third in the line. Point to the person who is holding the heaviest bag. (Point to the cone) What is this shape? (Point to the cylinder) What is this shape?	Pa Correct Response A line with pig first; cow second; chicken third C C Cone Cube Cube Cylinder	Response Code 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	Incorrect Response Code	"How do you know" and
(pre)	2014 white Prompt Put the pig first in the line, the cow second in the line and the chicken third in the line. Point to the person who is holding the heaviest bag. (Point to the cone) What is this shape? (Point to the cube) What is this shape? (Point to the cylinder) What is this shape? Point to the building that is the tallest. Use your finger to count how many	Pa Correct Response A line with pig first; cow second; chicken third C Cone Cube Cylinder B	Response 0 <th>Incorrect Response Code</th> <th>"How do you know" and</th>	Incorrect Response Code	"How do you know" and
(pre) Item 1 2 3a 3b 3c 4 5 6a 6b	2014 2014 2014 2014 2014 2014 2014 2014	Pa Correct Response A line with pig first; cow second; chicken third C Cone Cube Cube Cube Cylinder B 12 Child with 1 on shirt	Response 0 <th>Incorrect Response Code</th> <th>"How do you know" and</th>	Incorrect Response Code	"How do you know" and
(pre) Item 1 2 3a 3b 3c 4 5 6a 6b 6c	2014 2014 2014 2014 2014 2014 2014 2014	Pa Correct Response A line with pig first; cow second; chicken third C Cone Cube Cube Cylinder B 12 Child with 1 on shirt Child with 3 on shirt Child with 5 on shirt	Response 0 <th>Incorrect Response Code</th> <th>"How do you know" and</th>	Incorrect Response Code	"How do you know" and
(pre)	2014 2014 2014 2014 2014 2014 2014 2014	Pa Correct Response A line with pig first; cow second; chicken third C Cone Cube Cube Cube Cylinder B 12 Child with 1 on shirt Child with 3 on shirt Child with 5 on shirt	Response 0 <th>Incorrect Response Code a b a b a b a b a b a b a b a b a b a b a b a b a b a b a b a b a b a b a b b c a b b c a b b c a b b c a b b c a b b c a b b c b c c c c c c c c c <</th> <th>"How do you know" and</th>	Incorrect Response Code a b a b a b a b a b a b a b a b a b a b a b a b a b a b a b a b a b a b a b b c a b b c a b b c a b b c a b b c a b b c a b b c b c c c c c c c c c <	"How do you know" and
(pre) Item 1 2 3a 3b 3c 4 5 6a 6bb 6c 7 8a	2014 2014 2014 2014 2014 2014 2014 2014	Pa Correct Response A line with pig first; cow second; chicken third C Cone Cube Cylinder B 12 Child with 1 on shirt Child with 3 on shirt Child with 5 on shirt Strawberry Soccer Ball	Response 0 <th></th> <th>"How do you know" and</th>		"How do you know" and
(pre) Item 1 1 2 3a 2 3b 2 3a 2 4 5 6a 2 6b 2 6c 2 7 8a 2 8b 2	2014 2014 2014 2014 2014 2014 2014 2014	Pa Correct Response A line with pig first; cow second; chicken third C Cone Cube Cube Cube Cylinder B 12 Child with 1 on shirt Child with 3 on shirt Child with 5 on shirt	Response 0 <td></td> <td>"How do you know" and</td>		"How do you know" and
(pre) Item 1 2 3a 3b 3b 3c 4 5 6a 6b 6c 7 8a 8b	2014 2014 2014 2014 2014 2014 2014 2014	Pa Correct Response A line with pig first; cow second; chicken third C Cone Cube Cylinder B 12 Child with 1 on shirt Child with 3 on shirt Child with 5 on shirt Strawberry Soccer Ball	Response 0 <td></td> <td>"How do you know" and</td>		"How do you know" and

ltem	Prompt	Correct Response	Response Code	e Incorrect Response Code	"How do you know" and Incorrect child responses
9	Point to the monkey that is the highest.	В	0 0 1	9 a c	
10a	Now make the same pattern using your hands.	AAAB repeated tw	ice 0 1	9	
10b	Keep going! (Skip this item if 10a is incorrect)	AAAB at least on	ce 0 1] 9	
11	Find the pair of shoes that best fits each person's feet.	small/small ; medium/medium large/large	n; 0 1 1] 9 🗌 a 🗌 b	
12a	What is this shape?	Rectangle	001	9	
12b	What is this shape?	Triangle	0 1	9	
12c	What is this shape?	Square	0 1 1	9	
13a	Point to the dinosaur that is fourth in line.	4th dinosaur	0 1	9 a b c d	
13b	Now, point to the dinosaur that is <i>second</i> in line.	2nd dinosaur	0 1	9 a b c d	
14	Count all of the bananas.	10	0 1	9 a b c d	
15	Use these bears to make a pattern here	e. Any repeating patt	ern 0 1] 9	
16	Make a pattern here using these stars.	Any repeating patt	ern 0 1] 9	
17a	Show me what comes next to finish the pattern.	One orange bloc	k 0 1	9	
17b	Now you keep going with the pattern. (Skip this item if 17a is incorrect)	At least one purpl orange pattern ur		9	
(pre)	2014 white	Correct	Page 3 of 4 Response	TL. Do no duplicate without permis	"How do you know" and
(pre)	2014 white Prompt	Correct Response	Page 3 of 4 Response Code		
(pre) Item 18a	Prompt I want to go to the fifth floor. What button should press?	Correct Response Child points to or says "5"	Page 3 of 4 Response Code 0 1 9	Incorrect	"How do you know" and
(pre) Item 18a 18b	2014 white Prompt I want to go to the fifth floor. What button should I press? Next, I want to go to the third floor. What button should I press?	Correct Response Child points to or says "3" Child points to or says "3"	Page 3 of 4 Response 0 1 9 0 1 9	Incorrect	"How do you know" and
(pre) Item 18a 18b 18c	Prompt I want to go to the fifth floor. What button should I press? Next, I want to go to the third floor. What button should I press? Then, I want to go to the seventh floor. What button should I press? Next, I want to go to the second	Correct Response Child points to or says "5" Child points to or says "7" Child points to or	Page 3 of 4	Incorrect	"How do you know" and
(pre) Item 18a 18b 18c	2014 2014 White Prompt I want to go to the fifth floor. What button should 1 press? Next, I want to go to the third floor. What button should 1 press? Then, I want to go to the second floor. Mext, I want to go to the second floor. Next, I want to go to the second floor. Next, I want to go to the second floor. Find the cube tower that is as tall	Correct Response Child points to or says "5" Child points to or says "3" Child points to or says "7"	Page 3 of 4	Incorrect Response Code	"How do you know" and
(pre) Item 18a 18b 18c 18d 19	2014 2014 winte Prompt I want to go to the fifth floor. What button should I press? Next, I want to go to the seventh floor. What button should I press? Then, I want to go to the seventh floor. What button should I press? Next, I want to go to the seventh floor. What button should I press? Next, I want to go to the second floor. What button should I press? Find the cube tower that is as tall as the block.	Correct Response Child points to or says "3" Child points to or says "7" Child points to or says "2" Child points to or says "2"	Page 3 of 4	Incorrect	"How do you know" and
(pre) Item 18a 18b 18c 18d 19 20a	2014 2014 White Prompt I want to go to the fifth floor. What button should 1 press? Next, I want to go to the third floor. What button should 1 press? Then, I want to go to the second floor. Mext, I want to go to the second floor. Next, I want to go to the second floor. Next, I want to go to the second floor. Find the cube tower that is as tall	Correct Response Child points to or says "5" Child points to or says "3" Child points to or says "7" Child points to or says "2"	Page 3 of 4	Incorrect Response Code	"How do you know" and
(pre) Item 18a 18b 18c 18d 19	2014 2014 White Prompt I want to go to the fifth floor. What button should I press? Next, I want to go to the second floor. What button should I press? Then, I want to go to the second floor. What button should I press? Next, I want to go to the second floor. What button should I press? Pind the cube tower that is as tall as the block. Point to all the sides. Point to all the sides.	Correct Response Child points to or says "5" Child points to or says "3" Child points to or says "7" Child points to or says "2" B Shows 3 sides Shows 4 sides One whole unit (AB)	Page 3 of 4	Incorrect Response Code	"How do you know" and
(pre) Item 18a 18b 18c 18d 19 20a 20b	2014 2014 White I want to go to the fifth floor. What button should I press? Next, I want to go to the third floor. What button should I press? Then, I want to go to the seventh floor. Moral button should I press? Next, I want to go to the seventh floor. What button should I press? Find the cube tower that is as tall as the block. Point to all the sides. Point to all the sides. Help me add cubes to continue	Correct Response Child points to or says "5" Child points to or says "7" Child points to or says "2" Child points to or says "2" Child points to or says "2" Child points to or says "2"	Page 3 of 4	Incorrect Response Code	"How do you know" and
(pre) Item 18a 18b 18c 18d 19 20a 20b 21	2014 2014 White I want to go to the fifth floor. What button should I press? Next, I want to go to the second floor. What button should I press? Then, I want to go to the second floor. What button should I press? Next, I want to go to the second floor. What button should I press? Find the cube tower that is as tall as the block. Point to all the sides. Point to all the sides. Help me add cubes to continue this pattern.	Correct Response Child points to or says "5" Child points to or says "7" Child points to or says "7" Child points to or says "2" Shows 3 sides Shows 4 sides One whole unit (AB) blue, red	Page 3 of 4	Incorrect Response Code	"How do you know" and
(pre) Item 18a 18b 18c 18d 19 20a 20b 21 22a	2014 2014 White Prompt I want to go to the <i>fifth</i> floor. What button should I press? Next, I want to go to the seventh floor. Then, I want to go to the seventh floor. What button should I press? Next, I want to go to the seventh floor. What button should I press? Next, I want to go to the seventh floor. What button should I press? Find the cube tower that is as tail as the block. Point to all the sides. Point to all the sides. Help me add cubes to continue this pattern. Find the sphere.	Correct Response Child points to or says "3" Child points to or says "3" Child points to or says "7" Child points to or says "2" Child points to or says "3" Child points to or says "3" Child points to or says "2" Child points to or says "3" Child points	Page 3 of 4		"How do you know" and
(pre) Item 18a 18b 18c 18d 19 20a 20b 21 22a 22b 22c	2014 2014 White Prompt I want to go to the <i>fifth</i> floor. What button should I press? Next, I want to go to the seventh floor. What button should I press? Then, I want to go to the seventh floor. What button should I press? Next, I want to go to the seventh floor. What button should I press? Pind the cube tower that is as tall as the block. Point to all the sides. Point to all the sides. Help me add cubes to continue this pattern. Find the sphere. Find the cube.	Correct Response Child points to or says "5" Child points to or says "7" Child points to or says "7" Child points to or says "2" Child points to or says "2" Child points to or says "2" Child points to or says "2" Child points to or says "7" Child points	Page 3 of 4	Incorrect Response Code	"How do you know" and
(pre) Item 18a 18b 18c 18d 19 20a 20b 21 22a 22b 22c 22d	2014 2014 I want to go to the fifth floor. What button should I press? Next, I want to go to the second floor. What button should I press? Then, I want to go to the second floor. What button should I press? Rext, I want to go to the second floor. What button should I press? Point to all the sides. Point to all the sides. Point to all the sides. Find the cubes to continue this pattern. Find the sphere. Find the cube. Find the cube. Find the cube. Point to the second floor.	Correct Response Child points to or says '5' Child points to or says "7' Child points to or says '2' Child points	Page 3 of 4	Incorrect Response Code	"How do you know" and
(pre) Item 18a 18b 18c 18d 19 20a 20b 21 22a 22b	2014 2014 I want to go to the fifth floor. I want to go to the fifth floor. What button should I press? Next, I want to go to the third floor. What button should I press? Then, I want to go to the second floor. What button should I press? Next, I want to go to the second floor. What button should I press? Next, I want to go to the second floor. What button should I press? Pind the cube tower that is as tall as the block. Point to all the sides. Point to all the sides. Point to all the sides. Find the sphere. Find the pyramid. Find the cube. Find the cube. Find the cube. Point to the child standing in front	Correct Response Child points to or says "5" Child points to or says "7" Child points to or says "2" Child points to or says "7" Child points	Page 3 of 4	Incorrect Response Code	"How do you know" and

Appendix N. Child Post-Assessment

			Re	gion Center Class	
	F	RTL Home Study	/ Assessm	ent 2014	
	like this. 🔀 Choose	CK pen. When asked to s only one answer for each and CIRCLE it so we know	question. If you w	ant to change your answe	r, just *
	Child First Name:				, 0 0
	Child Last Name:				۵ ۵
	Classroom Name:				
	Center Name:				*
	Accessor Name:				
	Assessor Name:				
	Assessment Date (m	mddyyyy):			
\vdash					
	2014	_			0 0 0 0
	2014 J) yellow	Pa	ge 1 of 4		9999
) yellow	Pa Correct Response	ge 1 of 4 Response Code	Incorrect Response Code	9 9 9 9 "How do you know" and incorrect child responses
(post) yellow	Correct	Response		"How do you know" and
(post	Prompt Put the pig first in the line, the cow second in the line	Correct Response A line with pig first; cow second;	Response Code	Response Code	
(post	Prompt Put the pig first in the line, the cow second in the line and the chicken third in the line. Point to the person who is holding the heaviest bag. (Point to the cone) What is this shape?	Correct Response A line with pig first; cow second; chicken third C Cone	Response Code 0 1 0 1 0 1 0 1	Response Code	"How do you know" and
(post	b) yellow Prompt Put the pig first in the line, the cow second in the line and the chicken third in the line. Point to the person who is holding the heaviest bag. (Point to the cone) What is this shape? (Point to the cube) What is this shape?	Correct Response A line with pig first; cow second; chicken third C C Cone Cube	Response Code 0 1 9 0 1 9 0 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	Response Code	"How do you know" and
(post Item 1 2 3a 3b 3c	t) yellow Prompt Put the pig <i>first</i> in the line, the cow second in the line and the chicken <i>third</i> in the line. Point to the person who is holding the heaviest bag. (Point to the <i>cone</i>) What is this shape? (Point to the <i>cylinder</i>) What is this shape?	Correct Response A line with pig first; cow second; chicken third C Cone Cube Cube Cylinder	Response Code 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	Response Code	"How do you know" and
(post Item 1 3a 3b 3c 4	t) yellow Prompt Put the pig <i>first</i> in the line, the cow second in the line and the chicken <i>third</i> in the line. Point to the person who is holding the heaviest bag. (Point to the <i>cone</i>) What is this shape? (Point to the <i>cube</i>) What is this	Correct Response A line with pig first; cow second; chicken third C Cone Cube Cube Cylinder B	Response Code 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	Response Code a b a b	"How do you know" and
(post Item 1 2 3a 3b 3c 4 5	t) yellow Prompt Put the pig first in the line, the cow second in the line and the chicken third in the line. Point to the person who is holding the heaviest bag. (Point to the cone) What is this shape? (Point to the cube) What is this shape? Point to the building that is the tallest. Use your finger to count how many frogs I have.	Correct Response A line with pig first; cow second; chicken third C C Cone Cube Cube Cylinder B 12	Response Code 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9	Response Code a b a b	"How do you know" and
(post Item 1 2 3a 3b 3c 4 5 6a	t) yellow Prompt Put the pig first in the line, the cow second in the line and the chicken third in the line. Point to the person who is holding the heaviest bag. (Point to the cone) What is this shape? (Point to the cube) What is this shape? Point to the building that is the tallest. Use your finger to count how many frogs I have. Point to the child who is first in line.	Correct Response A line with pig first; cow second; chicken third C C Cone Cube Cylinder B 12 Child with 1 on shirt	Response Code 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9	Response Code a b a b	"How do you know" and
(post Item 1 2 3a 3b 3c 4 5	t) yellow Prompt Put the pig first in the line, the cow second in the line and the chicken third in the line. Point to the person who is holding the heaviest bag. (Point to the cone) What is this shape? (Point to the cube) What is this shape? Point to the building that is the tallest. Use your finger to count how many frogs I have.	Correct Response A line with pig first; cow second; chicken third C C Cone Cube Cube Cylinder B 12	Response Code 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9	Response Code a b a b	"How do you know" and
(posl Item 1 2 3a 3b 3c 4 5 6a 6b	t) yellow Prompt Put the pig first in the line, the cow second in the line and the chicken third in the line. Point to the person who is holding the heaviest bag. (Point to the cone) What is this shape? (Point to the cube) What is this shape? Point to the building that is the tallest. Use your finger to count how many frogs I have. Point to the child who is first in line. Point to the child who is third in line.	Correct Response A line with pig first; cow second; chicken third C Cone Cube Cylinder B 12 Child with 1 on shirt Child with 3 on shirt	Response Code 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9	Response Code a b a b	"How do you know" and
(post Item 1 2 3a 3b 3c 4 5 6a 6b 6c	by yellow Prompt Put the pig first in the line, the cow second in the line and the chicken third in the line. Point to the person who is holding the heaviest bag. (Point to the cone) What is this shape? (Point to the cube) What is this shape? (Point to the cube) What is this shape? Point to the building that is the tallest. Use your finger to count how many frogs I have. Point to the child who is first in line. Point to the child who is first in line.	Correct Response A line with pig first; cow second; chicken third C Cone Cube Cube Cylinder B 12 Child with 1 on shirt Child with 3 on shirt	Response Code 0	Response Code a b a b	"How do you know" and
(post lterm 1 2 3a 3b 3c 4 5 6a 6b 6c 7	t) yellow Prompt Put the pig first in the line, the cow second in the line and the chicken third in the line. Point to the person who is holding the heaviest bag. (Point to the cone) What is this shape? (Point to the cube) What is this shape? (Point to the cube) What is the shape? Point to the building that is the tallest. Use your finger to count how many frogs I have. Point to the child who is first in line. Point to the child who is first in line. Point to the child who is fifth in line. Place the fruit that is missing here. Point to the object that looks like	Correct Response A line with pig first; cow second; chicken third C Cone Cube Cylinder B 12 Child with 1 on shirt Child with 3 on shirt Child with 5 on shirt	Response Code 0 1	Response Code a b c a b c a b c a b c c a b <t< td=""><td>"How do you know" and</td></t<>	"How do you know" and
(post Item 1 2 3a 3b 3c 4 5 6a 6b 6c 7 8a	t) yellow Prompt Put the pig first in the line, the cow second in the line and the chicken third in the line. Point to the person who is holding the heaviest bag. (Point to the cone) What is this shape? (Point to the cube) What is this shape? (Point to the cube) What is this shape? Point to the building that is the tallest. Use your finger to count how many frogs I have. Point to the child who is first in line. Point to the child who is first in line. Point to the child who is fifth in line. Place the fruit that is missing here. Point to the object that looks like a cone. How do you know? Point to the object that looks like	Correct Response A line with pig first; cow second; chicken third C Cone Cube Cylinder B 12 Child with 1 on shirt Child with 3 on shirt Child with 5 on shirt Strawberry Soccer Ball	Response Code 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1 9	Response Code a a a b a b c a b c b c b c b c b c b c <t< td=""><td>"How do you know" and</td></t<>	"How do you know" and
(post Item 1 3a 3b 3c 4 5 6a 6b 6c 7 8a 8b	b) yellow Prompt Put the pig first in the line, the cow second in the line and the chicken third in the line. Point to the person who is holding the heaviest bag. (Point to the cone) What is this shape? (Point to the cube) What is this shape? (Point to the cube) What is this shape? (Point to the cube) What is the shape? (Point to the cube) What is the tallest. Use your finger to count how many frogs I have. Point to the child who is first in line. Point to the child who is first in line. Point to the child who is first in line. Place the fruit that is missing here. Point to the object that looks like a sphere. How do you know? Point to the object that looks like a cube. How do you know? Point to the object that looks like a cube. How do you know?	Correct Response A line with pig first; cow second; chicken third C Cone Cube Cylinder B 12 Child with 1 on shirt Child with 3 on shirt Child with 3 on shirt Child with 5 on shirt Strawberry Soccer Ball Birthday Hat	Response Code 0 1 9	Response Code a b	"How do you know" and
(post Item 1 2 3a 3b 3c 4 5 6a 6b 6c 7 8a 8b 8c	 Prompt Put the pig first in the line, the cow second in the line and the chicken third in the line. Point to the person who is holding the heaviest bag. (Point to the cone) What is this shape? (Point to the cube) What is this shape? (Point to the cube) What is this shape? (Point to the cube) What is the tallest. Use your finger to count how many frogs I have. Point to the child who is first in line. Point to the child who is first in line. Point to the child who is first in line. Place the fruit that is missing here. Point to the object that looks like a cone. How do you know? Point to the object that looks like a cube. How do you know? Point to the object that looks like a cube. How do you know? 	Correct Response A line with pig first; cow second; chicken third C Cone Cube Cylinder B 12 Child with 1 on shirt Child with 3 on shirt Child with 5 on shirt Child with 5 on shirt Strawberry Soccer Ball Birthday Hat Present	Response Code 0 1	Response Code a b a b a b a b a b a b a b a b a b a b a b a b a b a b a b a b a b a c a b a b a c a b	"How do you know" and
(post litern 1 2 3a 3b 3c 4 5 6a 6b 6c 7 8a 8b 8c 8d 8d	ty yellow Prompt Put the pig first in the line, the cow second in the line and the chicken third in the line. Point to the person who is holding the heaviest bag. (Point to the cone) What is this shape? (Point to the cube) What is this shape? (Point to the cube) What is this shape? Point to the building that is the tallest. Use your finger to count how many frogs I have. Point to the child who is first in line. Point to the child who is first in line. Point to the child who is first in line. Point to the child who is first in line. Point to the child who is fifth in line. Place the fruit that is missing here. Point to the object that looks like a cohe. How do you know? Point to the object that looks like a cylinder. How do you know? Point to the object that looks like a cylinder. How do you know? Point to the object that looks like a cylinder. How do you know? Point to the object that looks like a cylinder. How do you know? Point to the object that looks like a cylinder. How do you know?	Correct Response A line with pig first; cow second; chicken third C Cone Cube Cylinder B 12 Child with 1 on shirt Child with 3 on shirt Child with 3 on shirt Child with 5 on shirt Strawberry Soccer Ball Birthday Hat Present Glass of juice or Cake	Response Code 0 1 9	Response Code a b	"How do you know" and
(post item 1 2 3a 3b 3c 4 5 6a 6b 6c 7 8a 8b 8c 8d 9	b) yellow Prompt Put the pig first in the line, the cow second in the line and the chicken third in the line. Point to the person who is holding the heaviest bag. (Point to the cone) What is this shape? (Point to the cube) What is the tallest. Use your finger to count how many fings I have. Point to the child who is first in line. Point to the child who is first in line. Point to the child who is fifth in line. Place the fruit that is missing here. Point to the object that looks like a cone. How do you know? Point to the object that looks like a cube. How do you know? Point to the object that looks like a cylinder. How do you know? Point to the object that looks like a cylinder. How do you know? Point to the object that looks like a cylinder. How do you know? Point to the monkey that is the highest. Now make the same pattern using your hands.	Correct Response A line with pig first; cocken third C Cone Cube Cylinder B 12 Child with 1 on shirt Child with 3 on shirt Child with 3 on shirt Child with 5 on shirt Child with 5 on shirt Strawberry Soccer Ball Birthday Hat Present Glass of juice or Cake B	Response Code 0 1 9	Response Code a b a b a b a b a b a b a b a b a b a b a b a b a b a b a b a b a b a c a b a b a c a b	"How do you know" and

(post) yenow Correct Response Incorrect "How do you know" a	11 mind the pail of bit best that desk fills medium/medium; large/arge 0 1 9 a b 12a What is this shape? Rectangle 0 1 9 a b 12a What is this shape? Square 0 1 9 a b c 12a What is this shape? Square 0 1 9 a b c c 13a Point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 14 Count all of the bananas. 10 0 1 9 a b c d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a d	Image of the region is feed. medium/medium; large/large 0 1 9 a b 2a What is this shape? Rectangle 0 1 9 a b 2b What is this shape? Square 0 1 9 a b c 2c What is this shape? Square 0 1 9 a b c c 3a Point to the dinosaur that is fourth in line. 4th dinosaur 0 1 9 a b c d 4d Count all of the bananas. 10 0 1 9 a b c d 4d Count all of the bananas. 10 0 1 9 a b c d 4d Count all of the bananas. 10 0 1 9 a b c d 4d Count all of the bananas. 10 0 1 9 a b c d d d d d d d d d d	11 mind the pail of bit best that desk fills medium/medium; large/large 0 1 9 a b 12 What is this shape? Rectangle 0 1 9 a b 12 What is this shape? Square 0 1 9 a b c 12 What is this shape? Square 0 1 9 a b c c 13a Point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 14 Count all of the bananas. 10 0 1 9 a b c d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a d </th <th>11 Pill the plan of sides that best his medium/medium; large/large; log 1 9 a b 12a What is this shape? Rectangle 0 1 9 12b What is this shape? Square 0 1 9 13a Point to the dinosaur that is dth dinosaur 0 0 1 9 a b c c d 13b Now, point to the dinosaur that is dth dinosaur 0 0 1 9 a b c c d 13b Now, point to the dinosaur that is dth dinosaur 0 0 1 9 a b c c d 14 Count all of the bananas. 10 0 0 1 9 a b c c d 15 Use these bears to make a pattern here. Any repeating pattern 0 0 1 9 a b c c d 15 Use these bears to make a pattern here using these stars. Any repeating pattern 0 1 1 9 16 Make a pattern here using these stars. Any repeating pattern 0 1 1 9 17a Show me what comes next to finish One orange block 0 1 1 9 18a Levant to go to the fifth floor. Child points to or says 0 0 1 1 9 18b Next, I want to go to the seventh floor. Child points to or says 0 0 1 1 9 18d Kext, I want to go to the seventh floor. Child points to r says 0 0</th> <th>11 Pind the pail of shoes that best fits medium/medium; large/arge 0 1 9 a b 12a What is this shape? Rectangle 0 1 9 a b 12b What is this shape? Square 0 1 9 a b c 12c What is this shape? Square 0 1 9 a b c 13a Point to the dinosaur that is 4th dinosaur 0 1 9 a b c d 14 Count all of the bananas. 10 0 1 9 a b c d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c d</th>	11 Pill the plan of sides that best his medium/medium; large/large; log 1 9 a b 12a What is this shape? Rectangle 0 1 9 12b What is this shape? Square 0 1 9 13a Point to the dinosaur that is dth dinosaur 0 0 1 9 a b c c d 13b Now, point to the dinosaur that is dth dinosaur 0 0 1 9 a b c c d 13b Now, point to the dinosaur that is dth dinosaur 0 0 1 9 a b c c d 14 Count all of the bananas. 10 0 0 1 9 a b c c d 15 Use these bears to make a pattern here. Any repeating pattern 0 0 1 9 a b c c d 15 Use these bears to make a pattern here using these stars. Any repeating pattern 0 1 1 9 16 Make a pattern here using these stars. Any repeating pattern 0 1 1 9 17a Show me what comes next to finish One orange block 0 1 1 9 18a Levant to go to the fifth floor. Child points to or says 0 0 1 1 9 18b Next, I want to go to the seventh floor. Child points to or says 0 0 1 1 9 18d Kext, I want to go to the seventh floor. Child points to r says 0 0	11 Pind the pail of shoes that best fits medium/medium; large/arge 0 1 9 a b 12a What is this shape? Rectangle 0 1 9 a b 12b What is this shape? Square 0 1 9 a b c 12c What is this shape? Square 0 1 9 a b c 13a Point to the dinosaur that is 4th dinosaur 0 1 9 a b c d 14 Count all of the bananas. 10 0 1 9 a b c d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c d
12b What is this shape? Triangle 0 1 9 12c What is this shape? Square 0 1 9 a b b c 13a Point to the dinosaur that is second in line. 4th dinosaur 0 1 9 a b c d 13b Now, point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 14 Count all of the bananas. 10 0 19 a b c d 15 Use these bears to make a pattern here. Any repeating pattern 0 19 a b c d 17a Show me what comes next to finish the pattern. One orange pattern unit. 0 19 a d	12b What is this shape? Triangle 0 1 9 12c What is this shape? Square 0 1 9 a b c 13a Point to the dinosaur that is out in the dinosaur that is second in line. 4th dinosaur 0 1 9 a b c d 13b Now, point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 13b Now, point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 14c Count all of the bananas. 10 0 1 9 a b d d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 16 Make a pattern mere using these stars. Any repeating pattern unit 0 1 9 17b Now you keep going with the pattern. At least one purple. 0 1 9 9 9 18a Iven 1 tog to the fifth floor. Child points to r says	22 What is this shape? Triangle 0 1 9 22 What is this shape? Square 0 1 9 33 Point to the dinosaur that is shape? Square 0 1 9 a b c d 34 Point to the dinosaur that is second in line. Ath dinosaur 0 1 9 a b c d 35 Now, point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 41 Count all of the beanas. 10 0 1 9 a b c d d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 d d 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 d d 76 Now you keep going with the pattern. At least one pupit. 0 1 9 d d 88 Ivant to go to the <i>thint</i> floor. Child points to or says 7 0 1 9 d d d 9 Next, I want to go to the <i>second</i> floor. Child points to or says 7 0 1 9 d d d d d d d d d d d d d d d	12b What is this shape? Triangle 0 1 9 12c What is this shape? Square 0 1 9 a b c d 13a Point to the dinosaur that is second in line. 4th dinosaur 0 1 9 a b c d 13b Now, point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 13b Now, point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 14 Count all of the bananas. 10 0 1 9 a b c d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 16 Make a pattern nere using these stars. Any repeating pattern unit 0 1 9 17b Now you keep going with the pattern. At least one purple, orange pattern unit 0 1 9 9 18a Iwant to go to the fifth floor. Child points to or says 0	12b What is this shape? Triangle 0 1 0 0 1 0 0 1 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 <th< td=""><th>12b What is this shape? Triangle 0 1 9 12c What is this shape? Square 0 1 9 13a Point to the dinosaur that is 4th dinosaur 0 1 9 a b c.d 13a Now, point to the dinosaur that is 2nd dinosaur 0 1 9 a b c.d 14 Count all of the bananas. 10 0 1 9 a b c.d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c.d 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 a c d</th></th<>	12b What is this shape? Triangle 0 1 9 12c What is this shape? Square 0 1 9 13a Point to the dinosaur that is 4th dinosaur 0 1 9 a b c.d 13a Now, point to the dinosaur that is 2nd dinosaur 0 1 9 a b c.d 14 Count all of the bananas. 10 0 1 9 a b c.d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c.d 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 a c d
12c What is this shape? Square 0 0 1 9 13a Point to the dinosaur that is fourth in line. 4th dinosaur 0 1 9 a b c d 13b Now, point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 14c Count all of the bananas. 10 0 1 9 a b c d 14c Count all of the bananas. 10 0 1 9 a b c d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c d 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 a b c d 17a Show me what comes next to finish to one orange block 0 1 9 a b c d a b c d 17b Now youk keep going with the pattern. At least one purple, the pattern unit 0 1 9 a b c d a b c d 17a Show keep going with the pattern. At least one purple, the pattern unit 0 1 9 a b c d a b c d 17b Now youk keep going with the pattern. At least one purple, the pattern unit 0 1 9 a d a d a d 18a Next, I want to go to the seventh floor. Child points to or says do 1 9 <td>Image: constraint of the second floor. Correct Response Image: constraint of constraints or says constraints constraints as tall as constraints constraints constraints as tall as constraints constaints constra</td> <td>2 What is this shape? Square 0 1 9 a b c d 3a Point to the dinosaur that is second in line. 4th dinosaur 0 1 9 a b c d 3b Now, point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 4th Count all of the bananas. 10 0 1 9 a b c d 4th dinosaur 14 Count all of the bananas. 10 0 1 9 a b c d 4th dinosaur 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c d 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 a b c d 16 Make a pattern here using these stars. Any repeating pattern unit 0 1 9 a b c d 17 Now you keep going with the pattern. At least one purple, or range pattern unit 0 1 9 a b d d d d d d d d d d d d d d d d d d</td> <td>12 What is this shape? Square 0 1 9 133 Point to the dinosaur that is second in line. 4th dinosaur 0 1 9 a b c d 134 Point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 135 Now, point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 136 Now, point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 14 Count all of the bananas. 10 0 1 9 a b c d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c d</td> <td>12c What is this shape? Square 0 0 1 9 13a Point to the dinosaur that is 4th dinosaur 0 1 9 a b 0 d 13b Now, point to the dinosaur that is 2nd dinosaur 0 1 9 a b 0 d 13b Now, point to the dinosaur that is 2nd dinosaur 0 1 9 a b 0 d 13b Now, point to the dinosaur that is 2nd dinosaur 0 1 9 a b 0 d 14 Count all of the bananas. 10 0 1 9 a b 0 d d 14 Count all of the bananas. 10 0 1 9 a b 0 d d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 d d 17a Show me what comes next to finish One orange block 0 1 9 d d d 17b Now you keep going with the pattern. A least one purple, orange pattern unit 0 1 9 d</td> <th>12c What is this shape? Square 0 1 9 13a Point to the dinosaur that is 4th dinosaur 0 1 9 a b c d 13b Now, point to the dinosaur that is 2nd dinosaur 0 1 9 a b c d 13b Now, point to the dinosaur that is 2nd dinosaur 0 1 9 a b c d 14 Count all of the bananas. 10 0 1 9 a b c d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c d 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 a d<</th>	Image: constraint of the second floor. Correct Response Image: constraint of constraints or says constraints constraints as tall as constraints constraints constraints as tall as constraints constaints constra	2 What is this shape? Square 0 1 9 a b c d 3a Point to the dinosaur that is second in line. 4th dinosaur 0 1 9 a b c d 3b Now, point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 4th Count all of the bananas. 10 0 1 9 a b c d 4th dinosaur 14 Count all of the bananas. 10 0 1 9 a b c d 4th dinosaur 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c d 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 a b c d 16 Make a pattern here using these stars. Any repeating pattern unit 0 1 9 a b c d 17 Now you keep going with the pattern. At least one purple, or range pattern unit 0 1 9 a b d d d d d d d d d d d d d d d d d d	12 What is this shape? Square 0 1 9 133 Point to the dinosaur that is second in line. 4th dinosaur 0 1 9 a b c d 134 Point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 135 Now, point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 136 Now, point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 14 Count all of the bananas. 10 0 1 9 a b c d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c d	12c What is this shape? Square 0 0 1 9 13a Point to the dinosaur that is 4th dinosaur 0 1 9 a b 0 d 13b Now, point to the dinosaur that is 2nd dinosaur 0 1 9 a b 0 d 13b Now, point to the dinosaur that is 2nd dinosaur 0 1 9 a b 0 d 13b Now, point to the dinosaur that is 2nd dinosaur 0 1 9 a b 0 d 14 Count all of the bananas. 10 0 1 9 a b 0 d d 14 Count all of the bananas. 10 0 1 9 a b 0 d d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 d d 17a Show me what comes next to finish One orange block 0 1 9 d d d 17b Now you keep going with the pattern. A least one purple, orange pattern unit 0 1 9 d	12c What is this shape? Square 0 1 9 13a Point to the dinosaur that is 4th dinosaur 0 1 9 a b c d 13b Now, point to the dinosaur that is 2nd dinosaur 0 1 9 a b c d 13b Now, point to the dinosaur that is 2nd dinosaur 0 1 9 a b c d 14 Count all of the bananas. 10 0 1 9 a b c d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c d 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 a d<
13a Point to the dinosaur that is number of the dinosaur 0 1 9 a b a b a b a b a b a b a b a b a b c d	13a Point to the dinosaur that is second in line. 4th dinosaur 0 0 1 9 a b c d 13b Now, point to the dinosaur that is second in line. 2nd dinosaur 0 0 1 9 a b c d 14 Count all of the bananas. 10 0 0 1 9 a b c d 14 Count all of the bananas. 10 0 1 9 a b c d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c d 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 a b c d 17a Show me what comes next to finish the pattern. One orange pattern unit 0 0 1 9 a b c d 18a Iwant to go to the <i>third</i> floor. Child points to or says o 0 1 9 a a a a 18b Next, I want to go to the <i>swenth</i> floor. Child points to or says o 0 1 9 a a a a 18d Then, I want to go to the seventh floor. Child points to or says o 0 1 9 a c a a a a a a a a a a a a a a a <td< td=""><td>3a Point to the dinosaur that is second in line. 4th dinosaur 0 1 9 a b c d 3b Now, point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 41 Count all of the bananas. 10 0 1 9 a b c d 45 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c d 46 Make a pattern here using these stars. Any repeating pattern 0 1 9 a b c d</td><td>13a Point to the dinosaur that is out the innear the</td><td>13a Point to the dinosaur that is number of the dinosaur 4th dinosaur 0 1 9 a b c d 13b Now, point to the dinosaur that is scored in line. 2nd dinosaur 0 1 9 a b c d 14 Count all of the bananas. 10 0 1 9 a b c d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c d 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 a b c d 17a Show me what comes next to finish to one orange block 0 1 9 0 1 9 d <td< td=""><th>13a Point to the dinosaur that is fourth in line. 4th dinosaur 0 1 9 a b c d 13b Now, point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 14 Count all of the bananas. 10 0 1 9 a b c d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c d 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 a b c d 17a Show me what comes next to finish the pattern. One orange block 0 1 9 d<!--</th--></th></td<></td></td<>	3a Point to the dinosaur that is second in line. 4th dinosaur 0 1 9 a b c d 3b Now, point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 41 Count all of the bananas. 10 0 1 9 a b c d 45 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c d 46 Make a pattern here using these stars. Any repeating pattern 0 1 9 a b c d	13a Point to the dinosaur that is out the innear the	13a Point to the dinosaur that is number of the dinosaur 4th dinosaur 0 1 9 a b c d 13b Now, point to the dinosaur that is scored in line. 2nd dinosaur 0 1 9 a b c d 14 Count all of the bananas. 10 0 1 9 a b c d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c d 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 a b c d 17a Show me what comes next to finish to one orange block 0 1 9 0 1 9 d <td< td=""><th>13a Point to the dinosaur that is fourth in line. 4th dinosaur 0 1 9 a b c d 13b Now, point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 14 Count all of the bananas. 10 0 1 9 a b c d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c d 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 a b c d 17a Show me what comes next to finish the pattern. One orange block 0 1 9 d<!--</th--></th></td<>	13a Point to the dinosaur that is fourth in line. 4th dinosaur 0 1 9 a b c d 13b Now, point to the dinosaur that is second in line. 2nd dinosaur 0 1 9 a b c d 14 Count all of the bananas. 10 0 1 9 a b c d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c d 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 a b c d 17a Show me what comes next to finish the pattern. One orange block 0 1 9 d </th
fourth in line. 4in dirideaul 0 1 9 1 0 <th0< th=""><td>fourth in line. 411 dillosaul 0 0 1 9 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>fourth in line. 4th bit/backli 0 1 9 1 0 1 9 1 0 1 9 1 0 1 9 1 0 1 9 1 0 1 9 1 0 1 9 1 0 1 9 1 0 0 1 9 1 0 0 0 1 9 1 0 0 1 9 1 0 0 1 9 1 0 0 1 9 1 0 1 9 1 0 1 9 1 0 1 9 1 0 1 9 1 1 0 1 9 1 <td< td=""><td>fourth in line. 411 dilubadul 0 0 1 9 a 0 0 0 0 a 0 0 0 <tha 0="" 0<="" th=""> <tha 0="" 0<="" th=""> a 0 0 0<</tha></tha></td><td>fourth in line. 4 th diffestul 0 1 0 <th< td=""><th>fourth in line. 4th diflosaur 0 1 0</th></th<></td></td<></td></th0<>	fourth in line. 411 dillosaul 0 0 1 9 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	fourth in line. 4th bit/backli 0 1 9 1 0 1 9 1 0 1 9 1 0 1 9 1 0 1 9 1 0 1 9 1 0 1 9 1 0 1 9 1 0 0 1 9 1 0 0 0 1 9 1 0 0 1 9 1 0 0 1 9 1 0 0 1 9 1 0 1 9 1 0 1 9 1 0 1 9 1 0 1 9 1 1 0 1 9 1 <td< td=""><td>fourth in line. 411 dilubadul 0 0 1 9 a 0 0 0 0 a 0 0 0 <tha 0="" 0<="" th=""> <tha 0="" 0<="" th=""> a 0 0 0<</tha></tha></td><td>fourth in line. 4 th diffestul 0 1 0 <th< td=""><th>fourth in line. 4th diflosaur 0 1 0</th></th<></td></td<>	fourth in line. 411 dilubadul 0 0 1 9 a 0 0 0 0 a 0 0 0 <tha 0="" 0<="" th=""> <tha 0="" 0<="" th=""> a 0 0 0<</tha></tha>	fourth in line. 4 th diffestul 0 1 0 <th< td=""><th>fourth in line. 4th diflosaur 0 1 0</th></th<>	fourth in line. 4th diflosaur 0 1 0
second in line. 2/1d dinosaur 0 1 9 a 6 c d 14 Count all of the bananas. 10 0 1 9 a 6 c d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a 6 c d 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 a 6 c d 17a Show me what comes next to finish the pattern. One orange block 0 1 9 a 6 c d 17b Now you keep going with the pattern. At least one purple, orange pattern unit 0 1 9 a 6 c d 18a Iwant to go to the <i>fithi</i> floor. Child points to or says 5 c d d d d d d d d d d d d d d d d d d	second in line. 2nd dinosaur 0 1 9 1	second in line. 21d dinosaur 0 1 9 a b c c d 14 Count all of the bananas. 10 0 1 9 a b c d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 16 Make togo the fifth floor. Child points to or says 0 1 9 18a Iwant to go to the second floor. Child points to or says 0 1 9 18d Next, I want to go to the second floor. Child points to or says 0 1 9 19 Find the cube tower that is as tall as B 0 1 9 1 1 Do not duplicate without permission.	second in line. 2nd dinosaur 0 1 3 3 5 C 6 14 Count all of the bananas. 10 0 1 9 1	second in line. 2nd dinosaur 0 1 9 a b c d 14 Count all of the bananas. 10 0 1 9 a b c d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c d 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 a b c d 17a Show me what comes next to finish to ne orange block 0 1 9 a b c	second in line. 2nd dinosaur 0 0 1 9 a b c d 14 Count all of the bananas. 10 0 1 9 a b c d 15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 a b c d 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 a b c d 17a Show me what comes next to finish the pattern. (Skip this item if 17a is incorrect). One orange block 0 1 9 a b c d 17b Now you keep going with the pattern. (Skip this item if 17a is incorrect). At least one purple, 0 0 1 9 a b c d a c d 18a I want to go to the fifth floor. Child points to or says c 0 0 1 9 a c d a c d 18b Next, I want to go to the seventh floor. Child points to or says c 0 0 1 9 a c d a c d 18c Then, I want to go to the seventh floor. Child points to or says c 0 0 1 9 a c d a c d 18d Next, I want to go to the seventh floor. Child points to or says c 0 1 9 a c d a c d 19 Find the cube tower that is as tall as b B B o 1 9 a c d a c d a c d
15 Use these bears to make a pattern here. Any repeating pattern 0 0 1 9 16 Make a pattern here using these stars. Any repeating pattern 0 0 1 9 17a Show me what comes next to finish the pattern. One orange block 0 1 9 17b Now you keep going with the pattern. Orange pattern unit 0 0 1 9 0 17b Now you keep going with the pattern. Orange pattern unit 0 0 1 9 0 18a Iwant to go to the <i>fifth</i> floor. What button should I press? Child points to or says "5" 0 0 1 9 18b Next, I want to go to the <i>seventh</i> floor. What button should I press? Child points to or says "7" 0 0 1 9 18d Next, I want to go to the seventh floor. What button should I press? Child points to or says "7" 0 1 9 18d Next, I want to go to the seventh floor. What button should I press? Child points to or says "7" 0 1 9 18d Next, I want to go to the seventh floor. What button should I press? Child points to or says "7" 0 1 9 19 Find the cube tower that is as tall as the block. B 0 1 9 a 0 Do not duplicate without permission. Prior the place Do not duplica	15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 17a Show me what comes next to finish the pattern. One orange block 0 1 9 17b Now you keep going with the pattern. At least one purple, orange pattern unit 0 1 9 18a Iwant to go to the <i>fifth</i> floor. Child points to or says "5" 0 1 9 18b Next, I want to go to the <i>seventh</i> floor. Child points to or says "3" 0 1 9 18c Then, I want to go to the <i>seventh</i> floor. Child points to or says "3" 0 1 9 18c Then, I want to go to the seventh floor. Child points to or says "0 1 9 9 18d Next, I want to go to the seventh floor. Child points to or says "0 1 9 9 18c Then, I want to go to the seventh floor. Child points to or says "0 1 9 9 18d Next, I want to go to the second floor. Child points to or says "0 1 9 9 9 18d De not duplicate without permission. 9 9 9 9 19 Find the cube tower that is as tall as the block. B 0 1 9 a	15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 7a Show me what comes next to finish the pattern. One orange block 0 1 9 7b Now you keep going with the pattern. At least one purple, orange pattern unit 0 1 9 9 8a Iwant to go to the fifth floor. Child points to or says '5'' comes '5'' comes'' comes''''''''''''''''''''''''''''''''''''	15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 17a Show me what comes next to finish the pattern. One orange block 0 1 9 17b Now you keep going with the pattern. At least one purple, orange pattern unit 0 1 9 17b Now you keep going with the pattern. At least one purple, orange pattern unit 0 1 9 18a Iwant to go to the <i>fifth</i> floor. Child points to or says "5" 0 1 9 18b Next, I want to go to the seventh floor. Child points to or says "0 1 9 18c Then, I want to go to the seventh floor. Child points to or says "0 1 9 18c Then, I want to go to the seventh floor. Child points to or says "0 1 9 18d Next, I want to go to the second floor. Child points to or says "0 1 9 18d Next, I want to go to the second floor. Child points to or says "0 1 9 a c 19 <t< td=""><td>15 Use these bears to make a pattern here Any repeating pattern 0 0 1 0 0</td><th>15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 17a Show me what comes next to finish the pattern. One orange block 0 1 9 17b Now you keep going with the pattern. (Skip this item if 17a is incorrect) At least one purple, orange pattern unit 0 1 9 18a Iwant to go to the fifth floor. What button should I press? Child points to or says '5' 0 1 9 18b Next, I want to go to the second floor. What button should I press? Child points to or says '7' 0 1 9 18c Then, I want to go to the second floor. What button should I presss? Child points to or says '2' 0 1 9 18d Next, I want to go to the second floor. What button should I presss? Child points to or says '2' 0 1 9 19 Find the cube tower that is as tall as the block. B 0 1 9 a c</th></t<>	15 Use these bears to make a pattern here Any repeating pattern 0 0 1 0 0	15 Use these bears to make a pattern here. Any repeating pattern 0 1 9 16 Make a pattern here using these stars. Any repeating pattern 0 1 9 17a Show me what comes next to finish the pattern. One orange block 0 1 9 17b Now you keep going with the pattern. (Skip this item if 17a is incorrect) At least one purple, orange pattern unit 0 1 9 18a Iwant to go to the fifth floor. What button should I press? Child points to or says '5' 0 1 9 18b Next, I want to go to the second floor. What button should I press? Child points to or says '7' 0 1 9 18c Then, I want to go to the second floor. What button should I presss? Child points to or says '2' 0 1 9 18d Next, I want to go to the second floor. What button should I presss? Child points to or says '2' 0 1 9 19 Find the cube tower that is as tall as the block. B 0 1 9 a c
16 Make a pattern here using these stars. Any repeating pattern 0 1 9 17a Show me what comes next to finish the pattern. One orange block 0 1 9 17b Now you keep going with the pattern. At least one purple, orange pattern unit 0 1 9 17b Now you keep going with the pattern. At least one purple, orange pattern unit 0 1 9 18a I want to go to the <i>thifth</i> floor. Child points to or says '5'' Child points to or says '0 1 9 18b Next, I want to go to the <i>seventh</i> floor. Child points to or says '3'' Child points to or says '0 1 9 18c Then, I want to go to the <i>seventh</i> floor. Child points to or says '3'' Child points to or says '0 1 9 18d Next, I want to go to the <i>seventh</i> floor. Child points to or says '2'' Child points to or says '0 1 9 18d Next, I want to go to the <i>second</i> floor. Child points to or says '2'' Child points to or says '0 1 9 18d Next, I want to go to the <i>second</i> floor. Child points to or says '2'' Child points to or says '0 1 9 0 1 19 Find the c	16 Make a pattern here using these stars. Any repeating pattern 0 1 9 17a Show me what comes next to finish the pattern. One orange block 0 1 9 17b Show you keep going with the pattern. At least one purple, orange pattern unit 0 1 9 17b Now you keep going with the pattern. At least one purple, orange pattern unit 0 1 9 18a I want to go to the <i>fifth</i> floor. Child points to or says "5" 0 1 9 18a I want to go to the <i>eventh</i> floor. Child points to or says "5" 0 1 9 18b Next, I want to go to the seventh floor. Child points to or says "7" 0 1 9 18c Then, I want to go to the seventh floor. Child points to or says "0 1 9 9 18c Then, I want to go to the second floor. Child points to or says "0 1 9 9 9 18c Then, I want to go to the second floor. Child points to or says "0 1 9 1 9 9 9 9 9 9 9 9 9	16 Make a patterm here using these stars. Any repeating pattern 0 1 9 7a Show me what comes next to finish the pattern. One orange block 0 1 9 7b Now you keep going with the pattern. At least one purple, orange pattern unit (Skip this item if 17a is incorrect) One or ange pattern unit (Skip this item if 17a is incorrect) At least one purple, orange pattern unit 0 0 1 9 8a I want to go to the fifth floor. Child points to or says "3" 0 1 9 8b Next, I want to go to the seventh floor. Child points to or says "3" 0 1 9 8c Then, I want to go to the second floor. Child points to or says "3" 0 1 9 8c Then, I want to go to the second floor. Child points to or says "2" 0 1 9 8c Then, I want to go to the second floor. Child points to or says "2" 0 1 9	16 Make a pattern here using these stars. Any repeating pattern 0 1 9 17a Show me what comes next to finish the pattern. One orange block 0 1 9 17b Show you keep going with the pattern. One orange pattern unit 0 1 9 17b Now you keep going with the pattern. At least one purple, orange pattern unit 0 1 9 18a I want to go to the <i>fifth</i> floor. Child points to or says 50 0 1 9 18a I want to go to the <i>ethifth</i> floor. Child points to or says 50 0 1 9 18b Next, I want to go to the seventh floor. Child points to or says 70 1 9 18c Then, I want to go to the seventh floor. Child points to or says 70 1 9 18c Then, I want to go to the second floor. Child points to or says 70 1 9 18d Next, I want to go to the second floor. Child points to or says 70 1 9 18d Next, I want to go to the second floor. Child points to or says 72 0 1 9 19 Find the cube tower that is a	16 Make a pattern here using these stars. Any repeating pattern 0 1 9 17a Show me what comes next to finish the pattern. One orange block 0 1 9 17b Now you keep going with the pattern. At least one purple, orange pattern unit on the pattern. 0 1 9 17b Now you keep going with the pattern. At least one purple, orange pattern unit on the points to or says 0 1 9 18a I want to go to the <i>fith</i> floor. Child points to or says 0 1 9 18b Next, I want to go to the seventh floor. Child points to or says 0 1 9 18c Then, I want to go to the seventh floor. Child points to or says 0 1 9 18d Next, I want to go to the seventh floor. Child points to or says 0 1 9 18d Next, I want to go to the second floor. Child points to or says 0 1 9 9 18d Next, I want to go to the second floor. Child points to or says 0 1 9 a c 18d Devot duplicate without permission. B<	16 Make a pattern here using these stars. Any repeating pattern 0 1 9 17a Show me what comes next to finish the pattern. One orange block 0 1 9 17b Now you keep going with the pattern. Orage pattern unit 0 1 9 17b Now you keep going with the pattern. At least one purple, orange pattern unit 0 1 9 18a Iwant to go to the <i>fifth</i> floor. Child points to or says 0 1 9 18b Next, I want to go to the <i>seventh</i> floor. Child points to or says 0 1 9 18c Then, I want to go to the seventh floor. Child points to or says 0 1 9 18c Then, I want to go to the seventh floor. Child points to or says 0 1 9 18c Then, I want to go to the seventh floor. Child points to or says 0 1 9 18d Next, I want to go to the seventh floor. Child points to or says 0 1 9 19 Find the cube tower that is as tall as the block. B 0 1 9 a c
17a Show me what comes next to finish the pattern. One orange block 0 1 9 17b Now you keep going with the pattern. At least one purple, orange pattern unit 0 1 9 17a Now you keep going with the pattern. Child points to or says 0 1 9 18a I want to go to the fifth floor. Child points to or says 0 1 9 18b Next, I want to go to the seventh floor. Child points to or says 0 1 9 18c Then, I want to go to the seventh floor. Child points to or says 0 1 9 18d Next, I want to go to the seventh floor. Child points to or says 0 1 9 18d Next, I want to go to the second floor. Child points to or says 0 1 9 18d Next, I want to go to the second floor. Child points to or says 0 1 9 19 Find the cube tower that is as tall as the block. B 0 1 9 a c Do not duplicate without permission. RTL 2014 Thow do you know" a	17a Show me what comes next to finish the pattern. One orange block 0 1 9 17b Now you keep going with the pattern. orange pattern unit 0 1 9 17b Now you keep going with the pattern. orange pattern unit 0 1 9 18a I want to go to the fifth floor. Child points to or says 5'' 0 1 9 18b Next, I want to go to the seventh floor. Child points to or says 7'' 0 1 9 18c Then, I want to go to the seventh floor. Child points to or says 7'' 0 1 9 18c Then, I want to go to the seventh floor. Child points to or says 7'' 0 1 9 18c Mext, I want to go to the seventh floor. Child points to or says 7'' 0 1 9 18d Mext, I want to go to the second floor. Child points to or says 7'' 0 1 9 19 Find the cube tower that is as tall as the block. B 0 1 9 a 0 Vont duplicate without permission. On not duplicate without permission.	7a Show me what comes next to finish the pattern. One orange block 0 1 9 7b Now you keep going with the pattern. Orange pattern unit 0 1 9 7a Iteration is incorrect with the pattern. Orange pattern unit 0 1 9 7a Iteration is incorrect with the pattern. Orange pattern unit 0 1 9 7b Now you keep going with the pattern. Orange pattern unit 0 1 9 8a Iwant to go to the fifth floor. Child points to or says 0 1 9 8b Next, I want to go to the seventh floor. Child points to or says 0 1 9 8d Next, I want to go to the seventh floor. Child points to or says 0 1 9 8d Next, I want to go to the second floor. Child points to or says 0 1 9 9 9 8d Next, I want to go to the second floor. Child points to or says 0 1 9 0 1 9 Find the cube tower that is as tall as the block. B 0 1 9 a <	17a Show me what comes next to finish the pattern. One orange block 0 1 9 17b Now you keep going with the pattern. orange pattern unit 0 1 9 17b Now you keep going with the pattern. orange pattern unit 0 1 9 18a I want to go to the fifth floor. Child points to or says 0 1 9 18b Next, I want to go to the seventh floor. Child points to or says 0 1 9 18b Then, I want to go to the seventh floor. Child points to or says 0 1 9 18c Then, I want to go to the seventh floor. Child points to or says 0 1 9 18c Then, I want to go to the seventh floor. Child points to or says 0 1 9 18c Then, I want to go to the second floor. Child points to or says 0 1 9 18d Next, I want to go to the second floor. Child points to or says 0 1 9 0 19 Find the cube tower that is as tall as the block. B 0 1 9 0 0	17a Show me what comes next to finish the pattern. One orange block 0 1 9 17b Now you keep going with the pattern. At least one purple, orange pattern unit on 1 0 1 9 17b Now you keep going with the pattern. At least one purple, orange pattern unit on 1 0 1 9 18a Iwant to go to the fifth floor. Child points to or says "5" 0 1 9 18b Next, I want to go to the seventh floor. Child points to or says "0 0 1 9 18c Then, I want to go to the seventh floor. Child points to or says "7" 0 1 9 18d Next, I want to go to the second floor. Child points to or says "7" 0 1 9 18d Next, I want to go to the second floor. Child points to or says "0 1 9 9 19 Find the cube tower that is as tall as the block. B 0 1 9	17a Show me what comes next to finish the pattern. One orange block 0 1 9 17b Now you keep going with the pattern. At least one purple, orange pattern unit 0 1 9 17b Now you keep going with the pattern. At least one purple, orange pattern unit 0 1 9 17b Now you keep going with the pattern. Orange pattern unit 0 1 9 18a I want to go to the fifth floor. Child points to or says 0 1 9 18b Next, I want to go to the <i>swenth</i> floor. Child points to or says 0 1 9 18c Then, I want to go to the seventh floor. Child points to or says 0 1 9 18d Next, I want to go to the second floor. Child points to or says 0 1 9 18d Next, I want to go to the second floor. Child points to or says 0 1 9 18d Next, I want to go to the second floor. Child points to or says 0 1 9 19 Find the cube tower that is as tall as the block. B 0 1 9 a
the pattern. One of angle block 0 1 9 17b Now you keep going with the pattern. orange pattern unit 0 1 9 18a I want to go to the fifth floor. Child points to or says 0 1 9 18b Next, I want to go to the third floor. Child points to or says 0 1 9 18b Next, I want to go to the seventh floor. Child points to or says 0 1 9 18c Then, I want to go to the seventh floor. Child points to or says 0 1 9 18c Then, I want to go to the seventh floor. Child points to or says 0 1 9 18d Next, I want to go to the second floor. Child points to or says 0 1 9 19 Find the cube tower that is as tall as the block. B 0 1 9 a c Do not duplicate without permission. RTL 2014 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9<	the pattern. One or ange block 0 1 9 17b Now you keep going with the pattern. (Skip this item if 17a is incorrect) At least one purple, or ange pattern unit 0 1 9 18a Iwant to go to the <i>fifth</i> floor. What button should 1 press? Child points to or says '5" 0 1 9 18b Next, I want to go to the seventh floor. What button should 1 press? Child points to or says '7" 0 1 9 18c Then, I want to go to the seventh floor. What button should 1 press? Child points to or says '7" 0 1 9 18d Next, I want to go to the second floor. What button should 1 presss? Child points to or says '7" 0 1 9 19 Find the cube tower that is as tall as the block. B 0 1 9 a c	the pattern. Correct Response Image number of the second floor. True 2014 Do not duplicate without permission. 9 9 9 9 9 Rem Prompt Correct Response Image number of the second floor. Child points to or says 0 1 9 9 9 9 9 9	the pattern. One or ange block 0 1 9 17b Now you keep going with the pattern. or ange pattern unit 0 1 9 18a I want to go to the <i>fifth</i> floor. Child points to or says 0 1 9 18a I want to go to the <i>thirth</i> floor. Child points to or says 0 1 9 18b Next, I want to go to the seventh floor. Child points to or says 0 1 9 18c Then, I want to go to the seventh floor. Child points to or says 0 1 9 18c Then, I want to go to the seventh floor. Child points to or says 0 1 9 18c Then, I want to go to the seventh floor. Child points to or says 0 1 9 18d Next, I want to go to the second floor. Child points to or says 0 1 9 19 Find the cube tower that is as tall as B 0 1 9 a c 19 Find the cube tower that is as tall as the block. B 0 1 9 0 1 9 9 9 9<	the pattern. One of an ge block 0 [0] 1] 3 17b Now you keep going with the pattern. (Skip this item if 17a is incorrect) At least one purple, or ange pattern unit 0 [1] 9 18a I want to go to the <i>fifth</i> floor. What button should 1 press? Child points to or says "5" 0 [1] 9 18b Next, I want to go to the <i>seventh</i> floor. What button should 1 press? Child points to or says "3" 0 [1] 9 18c Then, I want to go to the seventh floor. What button should 1 presss? Child points to or says "7" 0 [1] 9 18d Next, I want to go to the seventh floor. What button should 1 presss? Child points to or says "7" 0 [1] 9 18d Next, I want to go to the second floor. What button should 1 presss? Child points to or says "2" 0 [1] 9 19 Find the cube tower that is as tall as the block. B 0 [1] 9 a] c	the pattern. One of angle block 0 1 9 17b Now you keep going with the pattern. or angle pattern unit 0 1 9 18a I want to go to the fifth floor. Child points to or says 0 1 9 18b Next, I want to go to the third floor. Child points to or says 0 1 9 18c Then, I want to go to the second floor. Child points to or says 0 1 9 18c Then, I want to go to the second floor. Child points to or says 0 1 9 18d Next, I want to go to the second floor. Child points to or says 0 1 9 18d Next, I want to go to the second floor. Child points to or says 0 1 9 19 Find the cube tower that is as tall as B 0 1 9 a c Do not duplicate without permission.
17.0 (Skip this item if 17a is incorrect) orange pattern unit 0 1 9 18a I want to go to the fifth floor. What button should I press? Child points to or says 5'' 0 1 9 18b Next, I want to go to the second floor. What button should I press? Child points to or says 3'' 0 1 9 18c Then, I want to go to the second floor. What button should I presss? Child points to or says 7'' 0 1 9 18d Next, I want to go to the second floor. What button should I presss? Child points to or says 7'' 0 1 9 19 Find the cube tower that is as tall as the block. B 0 1 9 a c	Image: Skip this item if 17a is incorrect) orange pattern unit 0 1 9 Item Item Child points to or says 5'' 0 1 9 Item Next, I want to go to the fifth floor. What button should I press? Child points to or says 3'' 0 1 9 Item Next, I want to go to the second floor. What button should I press? Child points to or says 3'' 0 1 9 Item Next, I want to go to the second floor. What button should I press? Child points to or says 7'' 0 1 9 Item Find the cube tower that is as tall as the block. B 0 1 9 a c	11 (Skip this item if 17a is incorrect) orange pattern unit 0 1 9 18a Iwant to go to the <i>fifth</i> floor. What button should 1 press? Child points to or says "3" 0 1 9 19 Find the cube tower that is as tall as the block. B 0 1 9	Image: Skip this item if 17a is incorrect) orange pattern unit 0 1 9 Item Item Child points to or says -5" 0 1 9 Item Next, I want to go to the fifth floor. What button should I press? Child points to or says -3" 0 1 9 Item Next, I want to go to the second floor. What button should I press? Child points to or says -7" 0 1 9 Item Next, I want to go to the second floor. What button should I presss? Child points to or says -7" 0 1 9 Item Find the cube tower that is as tall as the block. B 0 1 9 a c Item Find the cube tower that is as tall as the block. B 0 1 9 a c	17.0 (Skip this item if 17a is incorrect) orange pattern unit 0 1 9 18a Iwant to go to the fifth floor. What button should I press? Child points to or says "3" 0 1 9 18b Next, Iwant to go to the <i>third</i> floor. What button should I press? Child points to or says "3" 0 1 9 18c Then, I want to go to the seventh floor. What button should I press? Child points to or says "7" 0 1 9 18d Next, I want to go to the seventh floor. What button should I press? Child points to or says "2" 0 1 9 19 Find the cube tower that is as tall as the block. B 0 1 9 a c	17.0 (Skip this item if 17a is incorrect) orange pattern unit 0 1 9 18a I want to go to the fifth floor. Child points to or says 0 1 9 18b Next, I want to go to the fifth floor. Child points to or says 0 1 9 18b Next, I want to go to the second floor. Child points to or says 0 1 9 18c Then, I want to go to the second floor. Child points to or says 0 1 9 18d Next, I want to go to the second floor. Child points to or says 0 1 9 18d Next, I want to go to the second floor. Child points to or says 0 1 9 18d Next, I want to go to the second floor. Child points to or says 0 1 9 19 Find the cube tower that is as tall as B 0 1 9 a c Do not duplicate without permission.
What button should I press? "5" 0 1 9 18b Next, I want to go to the <i>third</i> floor. What button should I press? Child points to or says "3" 0 1 9 18c Then, I want to go to the seventh floor. What button should I press? Child points to or says "7" 0 1 9 18d Next, I want to go to the second floor. What button should I presss? Child points to or says "2" 0 1 9 19 Find the cube tower that is as tall as the block. B 0 1 9 a c	What button should 1 press? -5" 0 - 1 - 9 186 Next, 1 want to go to the seventh floor. What button should 1 press? Child points to or says -7" 0 - 1 - 9 186 Then, I want to go to the seventh floor. What button should 1 press? Child points to or says -7" 0 - 1 - 9 186 Next, 1 want to go to the seventh floor. What button should 1 press? Child points to or says -7" 0 - 1 - 9 188 Next, 1 want to go to the second floor. What button should 1 presss? Child points to or says -2" 0 - 1 - 9 19 Find the cube tower that is as tall as the block. B 0 - 1 - 9 a - c Correct Response Incorrect Response Code "How do you know" and Incorrect child response	What button should 1 press? "5" 0 1 0 0	What button should 1 press? "5" 0 1 9 I86 Next, 1 want to go to the seventh floor. What button should 1 press? Child points to or says "7" 0 1 9 I86 Then, I want to go to the seventh floor. What button should 1 press? Child points to or says "7" 0 0 1 9 I86 Next, 1 want to go to the seventh floor. What button should 1 press? Child points to or says "7" 0 0 1 9 I87 Find the cube tower that is as tall as the block. B 0 0 1 9 a c I9 Find the cube tower that is as tall as the block. B 0 0 1 9 a c XTL 2014 post) yellow Do not duplicate without permission. 9 9 9 9 9	What button should I press? "5" 0 1 1 3 18b Next, I want to go to the third floor. What button should I press? Child points to or says "3" 0 1 1 9 18c Then, I want to go to the seventh floor. What button should I press? Child points to or says "7" 0 1 1 9 18d Next, I want to go to the second floor. What button should I press? Child points to or says "2" 0 1 1 9 18d Next, I want to go to the second floor. What button should I press? Child points to or says "2" 0 1 1 9 19 Find the cube tower that is as tall as the block. B 0 1 1 9 a c Do not duplicate without permission. P 9 9 9	What button should I press? "5" 0 1 9 18b Next, I want to go to the third floor. What button should I press? Child points to or says "3" 0 1 9 18c Then, I want to go to the seventh floor. What button should I press? Child points to or says "7" 0 1 9 18d Next, I want to go to the second floor. What button should I press? Child points to or says "2" 0 1 9 19 Find the cube tower that is as tall as the block. B 0 1 9 a c
18b Next, I want to go to the third floor. What button should I press? Child points to or says 3" 0 1 9 18c Then, I want to go to the seventh floor. What button should I presss? Child points to or says 7" 0 1 9 18d Next, I want to go to the second floor. What button should I presss? Child points to or says 2" 0 1 9 19 Find the cube tower that is as tall as the block. B 0 1 9 a c Do not duplicate without permission. RTL 2014 (post) yellow Do not duplicate without permission. 9 9 9 9 9 9 9 9 9	88 Next, I want to go to the third floor. What button should I press? Child points to or says "3" 0 0 1 9 Image: Child points to or says "7" 0 0 1 9 Image: Child points to or says "7" 0 0 1 9 Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" Image: Chil	86 Next, I want to go to the third floor. What button should I press? Child points to or says "7" 0 0 1 9 Image: Child points to or says "7" 0 0 1 9 Image: Child points to or says "7" 0 0 1 9 Image: Child points to or says "7" 0 0 1 9 Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" Image: Child points	88 Next, I want to go to the third floor. What button should I press? Child points to or says "3" 0 0 1 9 Image: Child points to or says "7" 0 0 1 9 Image: Child points to or says "7" 0 0 1 9 Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" Image: Chil	18b Next, I want to go to the third floor. What button should I press? Child points to or says "3" 0 0 1 9 18c Then, I want to go to the seventh floor. What button should I press? Child points to or says "7" 0 0 1 9 18d Next, I want to go to the second floor. What button should I presss? Child points to or says "2" 0 0 1 9 19 Find the cube tower that is as tall as the block. B 0 0 1 9 a c Do not duplicate without permission. RTL 2014 (post) yellow 9 9 9 9 9 9	18b Next, I want to go to the third floor. What button should I press? Child points to or says "3" 0 0 1 9 18c Then, I want to go to the seventh floor. What button should I presss? Child points to or says "7" 0 0 1 9 18d Next, I want to go to the second floor. What button should I presss? Child points to or says "2" 0 0 1 9 19 Find the cube tower that is as tall as the block. B 0 0 1 9 0 a c
18c Then, I want to go to the seventh floor. What button should 1 presss? Child points to or says "7" 0 0 1 9 18d Next, I want to go to the second floor. What button should 1 presss? Child points to or says "2" 0 0 1 9 19 Find the cube tower that is as tall as the block. B 0 0 1 9 a c Do not duplicate without permission. P 9 9 9 Correct Response	18c Then, I want to go to the seventh floor. What button should 1 presss? Child points to or says -7" 0 0 1 9 19 18d Next, I want to go to the second floor. What button should 1 presss? Child points to or says -2" 0 0 1 9 a c 19 Find the cube tower that is as tall as the block. B 0 0 1 9 a c c Correct Response Incorrect child response Incorrect child response	8c Then, I want to go to the seventh floor. What button should I press? Child points to or says "7" 0 0 1 9 Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" Image: Child points to or says "2" 0 0 1 9 Image: Child points to or says "2" Image: Child points to or says "2" </td <td>18c Then, I want to go to the seventh floor. What button should 1 presss? Child points to or says "7" 0 0 1 9 19 18d Next, I want to go to the second floor. What button should 1 presss? Child points to or says "2" 0 0 1 9 19 19 Find the cube tower that is as tall as the block. B 0 0 1 9 a c 0 Correct Response Incorrect Cried Response Code "How do you know" and Incorrect child response</td> <td>18c Then, I want to go to the seventh floor. What button should I presss? Child points to or says "7" 0 0 1 0 0 10 10 18d Next, I want to go to the second floor. What button should I presss? Child points to or says "2" 0 0 1 0 0 10 10 19 Find the cube tower that is as tall as the block. B 0 0 1 0 <t< td=""><th>18c Then, I want to go to the seventh floor. What button should I presss? Child points to or says "7" 0 0 1 9 18d Next, I want to go to the second floor. What button should I presss? Child points to or says "2" 0 0 1 9 19 Find the cube tower that is as tall as the block. B 0 0 1 9 a c</th></t<></td>	18c Then, I want to go to the seventh floor. What button should 1 presss? Child points to or says "7" 0 0 1 9 19 18d Next, I want to go to the second floor. What button should 1 presss? Child points to or says "2" 0 0 1 9 19 19 Find the cube tower that is as tall as the block. B 0 0 1 9 a c 0 Correct Response Incorrect Cried Response Code "How do you know" and Incorrect child response	18c Then, I want to go to the seventh floor. What button should I presss? Child points to or says "7" 0 0 1 0 0 10 10 18d Next, I want to go to the second floor. What button should I presss? Child points to or says "2" 0 0 1 0 0 10 10 19 Find the cube tower that is as tall as the block. B 0 0 1 0 0 <t< td=""><th>18c Then, I want to go to the seventh floor. What button should I presss? Child points to or says "7" 0 0 1 9 18d Next, I want to go to the second floor. What button should I presss? Child points to or says "2" 0 0 1 9 19 Find the cube tower that is as tall as the block. B 0 0 1 9 a c</th></t<>	18c Then, I want to go to the seventh floor. What button should I presss? Child points to or says "7" 0 0 1 9 18d Next, I want to go to the second floor. What button should I presss? Child points to or says "2" 0 0 1 9 19 Find the cube tower that is as tall as the block. B 0 0 1 9 a c
18d Next, I want to go to the second floor. Child points to or says "2" 0 1 9 19 Find the cube tower that is as tall as the block. B 0 1 9 a c Do not duplicate without permission. RTL 2014 (post) yellow 9 9 9 9 9	18d Next, I want to go to the second floor. What button should I presss? Child points to or says "2" 0 0 1 9 a c Image: Constraint of the second floor is a constraint of the second floor is constraint of the seco	8d Next, I want to go to the second floor. What button should I presss? Child points to or says "2" 0 0 1 9 a c Image: Constraint of the second floor is a constraint of the second floor is constraint of the secon	18d Next, I want to go to the second floor. What button should I presss? Child points to or says "2" 0 0 1 9 a c 19 Find the cube tower that is as tall as the block. B 0 0 1 9 a c c Correct Response Incorrect Response Code "How do you know" and Incorrect child response	18d Next, I want to go to the second floor. What button should I presss? Child points to or says "2" 0 0 1 0 0 0 0 0	18d Next, I want to go to the second floor. What button should I presss? Child points to or says "2" 0 0 1 9 19 19 Find the cube tower that is as tall as the block. B 0 0 1 9 0 c Do not duplicate without permission.
19 Find the cube tower that is as tall as the block. B 0 1 9 a c RTL 2014 (post) yellow Do not duplicate without permission. 9 9 9 9 Correct Response Incorrect "How do you know" a	19 Find the cube tower that is as tall as the block. B 0 1 9 a c Do not duplicate without permission. 9 9 9 9 TIL 2014 Do not duplicate without permission. Prompt Correct Response Incorrect "How do you know" and Incorrect child response Response	19 Find the cube tower that is as tall as the block. B 0 1 9 a c Correct memory without permission. On or duplicate without permission. On or duplicate without permission. 9 9 9 9 9 em Prompt Correct Response Incorrect Mild responses 0a Point to all the sides. Shows 3 sides 0 1 9 Prompt	19 Find the cube tower that is as tall as the block. B 0 1 9 a c Do not duplicate without permission. 9 9 9 9 TIL 2014 Do not duplicate without permission. 9 9 9 9 9 tem Prompt Correct Response Response Incorrect child response	19 Find the cube tower that is as tall as B 0 1 9 a c Do not duplicate without permission. P 9 9 9 Correct "How do you know" an	19 Find the cube tower that is as tall as B 0 1 9 a c RTL 2014 Do not duplicate without permission.
TRTL 2014 Do not duplicate without permission. (post) yellow 9999	TTL 2014 post) yellow Do not duplicate without permission. Post yellow 9 9 9 9 tem Prompt Correct Response Response Code Response Code Incorrect child response	em Prompt Correct Response Response Code Incorrect Response Code "How do you know" and Incorrect child response 0a Point to all the sides. Shows 3 sides 0 1 9	TTL 2014 post) yellow Do not duplicate without permission. Post Prompt Correct Response Response Incorrect Response Incorrect Response	TRTL 2014 Do not duplicate without permission. (post) yellow 9999	Do not duplicate without permission.
		0a Point to all the sides. Shows 3 sides 0 1 9			
		0b Point to all the sides Shows 4 sides 0 1 1 0	0a Point to all the sides. Shows 3 sides 0 1 9		
20b Point to all the sides. Shows 4 sides 0 1 9	Ob Point to all the sides. Shows 4 sides П 0 П 1 П 9		0b Point to all the sides. Shows 4 sides	rual Point to all the sides. Shows 3 sides	20b Point to all the sides. Shows 4 sides 0 1 9
21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 0 1 9 a b c d					
22a Find the sphere. Sphere 0 1 9 a b c d e	21 Help me add cubes to continue One whole unit (AB)	uns patient. Dide, red	21 Help me add cubes to continue One whole unit (AB)	20b Point to all the sides. Shows 4 sides 0 0 1 9 21 Help me add cubes to continue One whole unit (AB) 0 0 1 9	22a Find the sphere. Sphere 0 1 9 a b c d e
	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d		21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d	20b Point to all the sides. Shows 4 sides 0 0 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 0 1 9	22b Find the pyramid. Pyramid 0 1 9 a b c d e
22b Find the pyramid. Pyramid 0 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 abccd 22a Find the sphere. Sphere 0 1 1 9 abccde	2a Find the sphere. Sphere 0 0 1 1 9 a b b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 abc cd 22a Find the sphere. Sphere 0 1 1 9 abc cde	20b Point to all the sides. Shows 4 sides 0 0 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 0 1 9 a b c c d 22a Find the sphere. Sphere 0 0 1 9 a b c c d e	
22c Find the cube. Cube 0 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d 22b Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the cube. Cube 0 1 9 a b c d	Init patient. Onder, red 2a Find the sphere. Sphere 0 1 1 9 a b c d e 2b Find the pyramid. Pyramid 0 1 1 9 a b c d e 2c Find the cube. Cube 0 1 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d 22b Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the cube. Cube 0 1 9 a b c d	20b Point to all the sides. Shows 4 sides 0 0 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 0 1 9 a b c d 22a Find the sphere. Sphere 0 0 1 9 a b c d e 22b Find the pyramid. Pyramid 0 1 9 a b c d e 22c Find the cube. Cube 0 1 9 a b c d e	
22c Find the cube. Cube 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d 22b Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the cube. Cube 0 1 9 a b c d 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e	Init patient. Dide, red 2a Find the sphere. Sphere 0 1 9 a b c d e 2b Find the pyramid. Pyramid 0 1 9 a b c d e 2c Find the cube. Cube 0 1 9 a b c d e 2d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d e 22b Find the pyramid. Pyramid 0 1 9 a b c d e 22c Find the cube. Cube 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e	20b Point to all the sides. Shows 4 sides 0 0 1 9 21 Help me add cubes to continue One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d e 22b Find the pyramid. Pyramid 0 1 9 a b c d e 22c Find the cube. Cube 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e	of the table.
22c Find the cube. Cube 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 22a Point to the child standing in front of table. 0 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d 22b Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the cube. Cube 0 1 9 a b c d 22b Find the cube. Cube 0 1 9 a b c d e 22c Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 23a Point to the child standing <i>in front</i> of table 0 1 9 b c d e d e d d d d d d d d d d	2a Find the sphere. Sphere 0 1 9 a b c d e 2b Find the pyramid. Pyramid 0 1 9 a b c d e 2c Find the cube. Cube 0 1 9 a b c d e 2c Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 3a Point to the child standing in front of table 0 1 9 b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d 22b Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the cube. Cube 0 1 9 a b c d 22b Find the cube. Cube 0 1 9 a b c d e 22c Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 23a Point to the child standing <i>in front</i> of table 0 0 1 9 b c d d d b c d d d d d d d d	20b Point to all the sides. Shows 4 sides 0 0 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 0 1 9 a b c d 22a Find the sphere. Sphere 0 0 1 9 a b c d e 22b Find the pyramid. Pyramid 0 1 9 a b c d e 22c Find the cube. Cube 0 1 9 a b c d e 22c Find the cube. Cube 0 1 9 a b c d e 22d Find the cube. Cube 0 1 9 a b c d e 22d Find the cube. Cube 0 1 9 a b c d e 22d Find the cube. Cube 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 22a Point to the child standing <i>in front</i> Child in front of table 0 0 1 9 b c d	the table.
22c Find the cube. Cube 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 23a Point to the child standing <i>in front</i> of table. 0 1 9 b b c d e 23b Point to the child standing <i>behind</i> table. 0 1 9 b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d 22b Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the cube. Cube 0 1 9 a b c d e 22c Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e d e d <td>2a Find the sphere. Sphere 0 1 9 a b c d 2b Find the sphere. Pyramid 0 1 9 a b c d 2b Find the pyramid. Pyramid 0 1 9 a b c d 2c Find the cube. Cube 0 1 9 a b c d 2d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d 3a Point to the child standing <i>in front</i> of table 0 1 9 b c 3b Point to the child standing <i>behind</i> table 0 1 9 a c</td> <td>21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d 22b Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the cube. Cube 0 1 9 a b c d e 22c Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e d d e d<td>20b Point to all the sides. Shows 4 sides 0 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d e 22b Find the sphere. Sphere 0 1 9 a b c d e 22b Find the pyramid. Pyramid 0 1 9 a b c d e 22c Find the cube. Cube 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 23a Point to the child standing <i>in front</i> of table. 0 1 9 b c c e 23b Point to the child standing <i>behind</i> table. 0 1 9 a c e</td><th>23c Point to the child standing next to the table. Child next to table 0 1 9 a b</th></td>	2a Find the sphere. Sphere 0 1 9 a b c d 2b Find the sphere. Pyramid 0 1 9 a b c d 2b Find the pyramid. Pyramid 0 1 9 a b c d 2c Find the cube. Cube 0 1 9 a b c d 2d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d 3a Point to the child standing <i>in front</i> of table 0 1 9 b c 3b Point to the child standing <i>behind</i> table 0 1 9 a c	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d 22b Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the cube. Cube 0 1 9 a b c d e 22c Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e d d e d <td>20b Point to all the sides. Shows 4 sides 0 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d e 22b Find the sphere. Sphere 0 1 9 a b c d e 22b Find the pyramid. Pyramid 0 1 9 a b c d e 22c Find the cube. Cube 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 23a Point to the child standing <i>in front</i> of table. 0 1 9 b c c e 23b Point to the child standing <i>behind</i> table. 0 1 9 a c e</td> <th>23c Point to the child standing next to the table. Child next to table 0 1 9 a b</th>	20b Point to all the sides. Shows 4 sides 0 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d e 22b Find the sphere. Sphere 0 1 9 a b c d e 22b Find the pyramid. Pyramid 0 1 9 a b c d e 22c Find the cube. Cube 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 23a Point to the child standing <i>in front</i> of table. 0 1 9 b c c e 23b Point to the child standing <i>behind</i> table. 0 1 9 a c e	23c Point to the child standing next to the table. Child next to table 0 1 9 a b
uns patient. Unde, red	21 Help me add cubes to continue One whole unit (AB)		21 Help me add cubes to continue One whole unit (AB)	20b Point to all the sides. Shows 4 sides 0 0 1 9 21 Help me add cubes to continue One whole unit (AB) 0 0 1 9 0 0 1 9	22a Find the sphere. Sphere 0 1 9 a b c d e 22b Find the pyramid. Pyramid 0 1 9 a b c d e 22c Find the cube. Cube 0 1 9 a b c d e
	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22 Find the sphere. Sphere 0 1 9 a b c d e 22b Find the pyramid. Pyramid 0 1 9 a b c d e	Imit patient. Side, red Imit patient. Side, red Imit patient. Imit patient. <td>21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22 Find the sphere. Sphere 0 1 9 a b c d e 22b Find the pyramid. Pyramid 0 1 9 a b c d e</td> <td>20b Point to all the sides. Shows 4 sides 0 0 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) 0 1 9 1 9 0 1 9 22a Find the sphere. Sphere 0 1 9 1 9 0 1 9 22b Find the pyramid. Pyramid 0 1 9 1 9 0 1 9</td> <th></th>	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22 Find the sphere. Sphere 0 1 9 a b c d e 22b Find the pyramid. Pyramid 0 1 9 a b c d e	20b Point to all the sides. Shows 4 sides 0 0 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) 0 1 9 1 9 0 1 9 22a Find the sphere. Sphere 0 1 9 1 9 0 1 9 22b Find the pyramid. Pyramid 0 1 9 1 9 0 1 9	
Z2c Find the cube. Cube 0 1 9 3 b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d 22b Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the cube. Cube 0 1 9 a b c d	2a Find the sphere. Sphere 0 1 9 a b c d e 2b Find the pyramid. Pyramid 0 1 9 a b c d e 2c Find the cube. Cube 0 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d 22b Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the cube. Cube 0 1 9 a b c d	20b Point to all the sides. Shows 4 sides 0 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d e 22b Find the pyramid. Pyramid 0 1 9 a b c d e 22c Find the cube. Cube 0 1 9 a b c d e	23a Point to the child standing <i>in front</i> Child in front of table 0 1 9 b c
22c Find the cube. Cube 0 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 0 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d 22b Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the cube. Cube 0 1 9 a b c d 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e	Init patient. Dide, reu 2a Find the sphere. Sphere 0] 1] 9 a] b] c] d] e 2b Find the pyramid. Pyramid 0] 1] 9 a] b] c] d] e 2c Find the cube. Cube 0] 1] 9 a] b] c] d] e 2d Find the rectangular prism. Rectangular Prism 0] 1] 9 a] b] c] d] e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d 22b Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the cube. Cube 0 1 9 a b c d 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e	20b Point to all the sides. Shows 4 sides 0 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d e 22b Find the pyramid. Pyramid 0 1 9 a b c d e 22c Find the cube. Cube 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e	of the table.
22c Find the cube. Cube 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 22a Point to the child standing <i>in front</i> Child in front of table 0 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22 Find the sphere. Sphere 0 1 9 a b c d 23b Find the pyramid. Pyramid 0 1 9 a b c d 22b Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the cube. Cube 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 23a Point to the child standing <i>in front</i> Child in front of table 0 1 9 b c d e	uns patient. Dide, reu 2a Find the sphere. Sphere 0 [1] 9 a [b] c] d] e 2b Find the pyramid. Pyramid 0 [1] 9 a [b] c] d] e 2c Find the cube. Cube 0 [1] 9 a [b] c] d] e 2d Find the rectangular prism. Rectangular Prism 0 [1] 9 a [b] c] d] e 3a Point to the child standing in front Child in front of table 0 [1] 9 b] c]	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22 Find the sphere. Sphere 0 1 9 a b c d 23b Find the pyramid. Pyramid 0 1 9 a b c d 22b Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the cube. Cube 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 23a Point to the child standing <i>in front</i> Child in front of table 0 1 9 b c d e	20b Point to all the sides. Shows 4 sides 0 0 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d e 22b Find the pyramid. Pyramid 0 1 9 a b c d e 22c Find the cube. Cube 0 1 9 a b c d e 22c Find the cube. Cube 0 1 9 a b c d e 22d Find the cube. Cube 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 22a Point to the child standing <i>in front</i> Child in front of table 0 1 9 a b c d e	23b Point to the child standing behind Child behind table
22c Find the cube. Cube 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 23a Point to the child standing <i>in front</i> of table 0 1 9 b c d e 23b Point to the child standing <i>behind</i> Child helpind table 0 1 9 b c	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d 22b Find the sphere. Sphere 0 1 9 a b c d 22c Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the cube. Cube 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 23a Point to the child standing <i>in front</i> of table 0 1 9 b c c 33b Point to the child standing <i>behind</i> Child hebind table 0 1 9 b c	uns patient. bide, red 2a Find the sphere. Sphere 0] 1] 9 a] b] c] d] e 2b Find the pyramid. Pyramid 0] 1] 9 a] b] c] d] e 2c Find the cube. Cube 0] 1] 9 a] b] c] d] e 2d Find the rectangular prism. Rectangular Prism 0] 1] 9 a] b] c] d] e 3a Point to the child standing in front of table 0] 1] 9 b] c] b] c] 3b Point to the child standing behind Child helpind table 0] 1] 9 a] c]	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d 22b Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the pyramid. Pyramid 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 23a Point to the child standing <i>in front</i> of the table. O 1 9 b c c 33b Point to the child standing <i>behind</i> Child helpind table 0 1 0 a c	20b Point to all the sides. Shows 4 sides 0 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) 0 1 9 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d e 22b Find the sphere. Sphere 0 1 9 a b c d e 22c Find the pyramid. Pyramid 0 1 9 a b c d e 22c Find the cube. Cube 0 1 9 a b c d e 22d Find the rectangular prism. Rectangular Prism 0 1 9 a b c d e 23a Point to the child standing <i>in front</i> of table 0 1 9 b c c d e 23b Point to the child standing <i>bhind</i> Child herion table 0 1 9 b c c e	23c Point to the child standing next to Child next to table
				The sides Shows 3 sides	
		UN POINT O ALTOP SIDES Shows d sides 11 10 11 101			
		0 Point to all the sides Shows 4 sides 0 0 1 0			
20a Point to all the sides. Shows 3 sides 0 1 9		0 Point to all the sides Shows 4 sides	Va Point to all the sides. Shows 3 sides 0 1 9		20a Point to all the sides. Shows 3 sides 0 1 9
20a Point to all the sides. Shows 3 sides 0 1 9		Ob Point to all the sides Shows 4 sides	Va Point to all the sides. Shows 3 sides 0 1 9		20a Point to all the sides. Shows 3 sides 0 1 9
				sure Legist to all the sides Shows 3 sides	
20b Point to all the sides. Shows 4 sides 0 1 9	0b Point to all the sides. Shows 4 sides 0 1 1 9		0b Point to all the sides. Shows 4 sides	rvar Point to all the sides. Shows 3 sides 0 1 9	20b Point to all the sides. Shows 4 sides 0 1 9
	.0b Point to all the sides. Shows 4 sides 0 1 9		.0b Point to all the sides. I Shows 4 sides II I I I I I I I I I I I I I I I I I		A line we add where the weathing One whether we't' (AD)
21 Help me add cubes to continue One whole unit (AB)		21 Help me add cubes to continue One whole unit (AB)			21 Help me add cubes to continue One whole unit (AB)
this pattern. blue, red				20b Point to all the sides. Shows 4 sides 0 0 1 1 9	this pattern. blue, red blue, red
this pattern. blue, red				Point to all the sides. Shows 4 sides 0 0 1 0 9	this pattern. blue, red
	21 Help me add cubes to continue One whole unit (AB)		21 Help me add cubes to continue One whole unit (AB)	20b Point to all the sides. Shows 4 sides 0 0 1 0 21 Help me add cubes to continue One whole unit (AB) 0 0 1 0	uis pateni. Dide, red
ZZa Find the sphere. Sphere 0 1 9 1 b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d		21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d	20b Point to all the sides. Shows 4 sides 0 0 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 0 1 9 a b c d	
	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 abccd 22a Find the sphere. Sphere 0 1 1 9 abccde	unspatient. Dide, reu 2a Find the sphere. Sphere 0 1 9 1 9 1 1 1 9 1 1 1 <	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 abccd 22a Find the sphere. Sphere 0 1 1 9 abccde	20b Point to all the sides. Shows 4 sides 0 0 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 0 1 9 a b c c d 22a Find the sphere. Sphere 0 0 1 9 a b c c d e	
Pyramid. Pyramid 0 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 abccd 22a Find the sphere. Sphere 0 1 1 9 abccde	unspatient. Dide, reu 2a Find the sphere. Sphere 0 1 9 1 9 1 1 1 9 1 1 1 <	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 abccd 22a Find the sphere. Sphere 0 1 1 9 abccde	Point to all the sides. Shows 4 sides 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Prind the pyramid. Pyramid 0 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 abccd 22a Find the sphere. Sphere 0 1 1 9 abccde	unspatient. Dide, reu 2a Find the sphere. Sphere 0 1 9 1 9 1 1 1 9 1 1 1 <	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 abccd 22a Find the sphere. Sphere 0 1 1 9 abccde	20b Point to all the sides. Shows 4 sides 0 0 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 0 1 9 a b c c d 22a Find the sphere. Sphere 0 0 1 9 a b c c d e	
	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 12a Find the sphere. Sphere 0 1 9 a b c d 12b Find the pyramid. Pyramid 0 1 9 a b c d	Imit patient. Shere 0 1 9 a b c d e 2a Find the sphere. Sphere 0 1 9 a b c d e 2b Find the pyramid. Pyramid 0 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 12a Find the sphere. Sphere 0 1 9 a b c d 12b Find the pyramid. Pyramid 0 1 9 a b c d	Point to all the sides. Shows 4 sides 0 1 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 22a Find the sphere. Sphere 0 1 1 9 a b b c d 22b Find the pyramid. Pyramid 0 1 1 9 a b b c d	
Prind the pyramid. Pyramid 0 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 abccd 22a Find the sphere. Sphere 0 1 1 9 abccde	unspatient. Dide, reu 2a Find the sphere. Sphere 0 1 9 1 9 1 1 1 9 1 1 1 <	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 abccd 22a Find the sphere. Sphere 0 1 1 9 abccde	Point to all the sides. Shows 4 sides 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Pyramid Pyramid 0 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 abccd 22a Find the sphere. Sphere 0 1 1 9 abccde	unspatient. Dide, reu 2a Find the sphere. Sphere 0 1 9 1 9 1 1 1 9 1 1 1 <	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 abccd 22a Find the sphere. Sphere 0 1 1 9 abccde	Point to all the sides. Shows 4 sides 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Product Cube 0 1 9 a b c d e
Pind the pyramid. Pyramid 0 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 abccd 22a Find the sphere. Sphere 0 1 1 9 abccde	unspatient. Dide, reu 2a Find the sphere. Sphere 0 1 9 1 9 1 1 1 9 1 1 1 <	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 abccd 22a Find the sphere. Sphere 0 1 1 9 abccde	Point to all the sides. Shows 4 sides 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Prind the pyramid. Pyramid 0 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 abccd 22a Find the sphere. Sphere 0 1 1 9 abccde	unspatient. Dide, reu 2a Find the sphere. Sphere 0 1 9 1 9 1 1 1 9 1 1 1 <	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 abccd 22a Find the sphere. Sphere 0 1 1 9 abccde	Point to all the sides. Shows 4 sides 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 12a Find the sphere. Sphere 0 1 9 a b c d e 12b Find the pyramid. Pyramid 0 1 9 a b c d e	Image: Constraint of the pyramid Sold red 2a Find the pyramid. Pyramid 0 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 12a Find the sphere. Sphere 0 1 9 a b c d e 12b Find the pyramid. Pyramid 0 1 9 a b c d e	Point to all the sides. Shows 4 sides 0 1 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 22a Find the sphere. Sphere 0 1 1 9 a b b c d 22b Find the pyramid. Pyramid 0 1 1 9 a b b c d	
	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 12a Find the sphere. Sphere 0 1 9 a b c d e 12b Find the pyramid. Pyramid 0 1 9 a b c d e	Image: Constraint of the pyramid Sold red 2a Find the pyramid. Pyramid 0 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 12a Find the sphere. Sphere 0 1 9 a b c d e 12b Find the pyramid. Pyramid 0 1 9 a b c d e	Point to all the sides. Shows 4 sides 0 1 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 22a Find the sphere. Sphere 0 1 1 9 a b b c d 22b Find the pyramid. Pyramid 0 1 1 9 a b b c d	Image: Prise standard restangular prise standard restangular prise standard restangular prise standard restangular prise standard restandard re Restandard restandard rest
Image: Second	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d 22b Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the cube. Cube 0 1 9 a b c d	Init patient. Onder red	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22a Find the sphere. Sphere 0 1 9 a b c d 22b Find the pyramid. Pyramid 0 1 9 a b c d 22c Find the cube. Cube 0 1 9 a b c d	Point to all the sides. Shows 4 sides 0 1 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 22a Find the sphere. Sphere 0 1 1 9 a b c c d e 22b Find the pyramid. Pyramid 0 1 1 9 a b c c d e 22c Find the cube. Cube 0 1 1 9 a b c c d e	
	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 12a Find the sphere. Sphere 0 1 9 a b c d e 12b Find the pyramid. Pyramid 0 1 9 a b c d e	Image: Constraint of the pyramid Sold red 2a Find the pyramid. Pyramid 0 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 12a Find the sphere. Sphere 0 1 9 a b c d e 12b Find the pyramid. Pyramid 0 1 9 a b c d e	Point to all the sides. Shows 4 sides 0 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 22a Find the sphere. Sphere 0 1 9 a b c d 22b Find the pyramid. Pyramid 0 1 9 a b c d	Image: Image of the rectangular prism. Rectangular Prism. 0 1 9 a b c d e
	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22 Find the sphere. Sphere 0 1 9 a b c d 2b Find the pyramid. Pyramid 0 1 9 a b c d	Image: Constraint of the pyramid Sold red 2a Find the pyramid. Pyramid 0 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d 22 Find the sphere. Sphere 0 1 9 a b c d 2b Find the pyramid. Pyramid 0 1 9 a b c d	Di Point to all the sides. Shows 4 sides 0 0 1 0 0 0 1 0 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 0 1 0 1 0 0 1 0 2a Find the sphere. Sphere 0 0 1 0 1 0 0 0 0 0 0 0 0 2b Find the pyramid. Pyramid 0 0 1 0 0 0 0 0 0 0 0 0	
2b Find the pyramid. Pyramid 0 1 9 a b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 abc cd 2a Find the sphere. Sphere 0 1 1 9 abc cde	unspatient. Dide, reu 2a Find the sphere. Sphere 0 1 9 1 9 1 1 1 9 1 1 1 <	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 abc cd 2a Find the sphere. Sphere 0 1 1 9 abc cde	0b Point to all the sides. Shows 4 sides 0 0 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 0 1 9 22a Find the sphere. Sphere 0 0 1 9 a b c d e	
	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 abccd 22a Find the sphere. Sphere 0 1 1 9 abccde	2a Find the sphere. Sphere 0 0 1 1 9 a b b c d e	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 1 9 abc cd 22a Find the sphere. Sphere 0 1 1 9 abc cde	Point to all the sides. Shows 4 sides 0 0 1 9 Point to all the sides. Shows 4 sides 0 0 1 9 Point to all the sides. One whole unit (AB) blue, red 0 0 1 9 Point to all the sphere. Sphere 0 0 1 9 Point to all the sphere. Sphere 0 0 1 9 Point to all the sphere. Sphere 0 0 1 9	
ring the sphere. sphere u l <td< th=""><td>21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d</td><td></td><td>21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d</td><td>Ob Point to all the sides. Shows 4 sides 0 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d</td><th></th></td<>	21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d		21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d	Ob Point to all the sides. Shows 4 sides 0 1 9 21 Help me add cubes to continue this pattern. One whole unit (AB) blue, red 0 1 9 a b c d	
this pattern. blue, red				0b Point to all the sides. Shows 4 sides 0 1 9	this pattern. blue, red
21 Help me add cubes to continue One whole unit (AB)	0b Point to all the sides. Shows 4 sides 0 1 0 1 1 9	21 Help me add cubes to continue One whole unit (AB)	0b Point to all the sides. Shows 4 sides	Point to all the sides. Shows 3 sides 0 1 9	21 Help me add cubes to continue One whole unit (AB)
				And Point to all the sides Shows 3 sides 0 1 1 0	
				swal Point to all the sides.	
				And Point to all the sides Shows 3 sides 0 1 1 0	
	0b Point to all the sides. Shows 4 sides		0b Point to all the sides. Shows 4 sides	Point to all the sides. Shows 3 sides 0 1 1 9	
				Val Point to all the sides. Shows 3 sides	
				Ver Point to all the sides. Shows 3 sides	
	0b Point to all the sides. Shows 4 sides		0b Point to all the sides. Shows 4 sides	Point to all the sides. Shows 3 sides 0 1 1 9	
	0b Point to all the sides. Shows 4 sides		0b Point to all the sides. Shows 4 sides	rua Point to all the sides. Shows 3 sides	
				val Point to all the sides. Shows 3 sides	
				Val Point to all the sides. Shows 3 sides	
				Point to all the sides. Shows 3 sides 0 1 9	
				val Point to all the sides. Shows 3 sides	
				Val Point to all the sides. Shows 3 sides	
				Point to all the sides. Shows 3 sides	
	0b Point to all the sides. Shows 4 sides		0b Point to all the sides. Shows 4 sides	Point to all the sides. Shows 3 sides	
				val Point to all the sides. Shows 3 sides	
				Val Point to all the sides. Shows 3 sides	
	0b Point to all the sides. Shows 4 sides		0b Point to all the sides. Shows 4 sides	rount to all the sides. Shows 3 sides 0 1 1 9	
	0b Point to all the sides. Shows 4 sides		0b Point to all the sides. Shows 4 sides	rvar Point to all the sides. Shows 3 sides 0 1 9	
		The Point to all the sides Shows 4 sides 11 101 11 101			
				Point to all the sides. Shows 3 sides	
		Ob Point to all the sides Shows 4 sides			
	0b Point to all the sides. Shows 4 sides 0 1 0 1 9		0b Point to all the sides. Shows 4 sides	Point to all the sides. Shows 3 sides 0 1 1 9	
21 Help me add cubes to continue One whole unit (AB)		21 Help me add cubes to continue One whole unit (AB)	UN FORTE OF A STORES FOR FORTE STORES		21 Help me add cubes to continue One whole unit (AB)
21 Help me add cubes to continue One whole unit (AB)		21 Help me add cubes to continue One whole unit (AB)			21 Help me add cubes to continue One whole unit (AB)
				Ob Point to all the sides. Shows 4 sides 0 0 1 1 9	
this pattern. blue, red				Ob Point to all the sides. Shows 4 sides 0 1 9	this pattern. blue, red
this pattern. blue, red	21 Help me add cubes to continue One whole unit (AB)		21 Help me add cubes to continue One whole unit (AB)	Ob Point to all the sides. Shows 4 sides 0 1 1 9 21 Help me add cubes to continue One whole unit (AB) 0 1 1 9	this pattern. blue, red
this pattern. blue, red				0b Point to all the sides. Shows 4 sides 0 1 9	this pattern. blue, red
	va Forna de sides. Snows 3 sides 0 1 9			em Prompt Response Code Response Code Incorrect child response	em Prompt Response Code Response Code Incorrect child res
	tem Prompt Response Code Response Code Incorrect child respons	Prompt Response Code Response Code Incorrect child response 0a Point to all the sides. Shows 3 sides 0 0 1 1 9	tem Prompt Response Code Response Code Incorrect child respons		

Appendix O. Preschool Learning Behaviors Scale

Mark the appropriate box for each of the following statements, taking into consid	deration
the child's age. (Mark IXI ONE per row.)	

		Most often applies	Sometimes applies	Doesn't apply
1.	Pays attention to what you say.			
2.	Says task is too hard without making much effort to attempt it.			
3.	Is reluctant to tackle a new activity.			
4.	Sticks to an activity for as long as can be expected for a child of this age.			
5.	Adopts a don't-care attitude to success or failure.			
6.	Seems to take refuge in helplessness.			
7.	Follows peculiar and inflexible procedures in tackling activities.			
8.	Shows little desire to please you.			
9.	Is unwilling to accept help even when an activity proves too difficult.			
10.	Acts without taking sufficient time to look at the problem or work out a solution.			
11.	Cooperates in group activities.			
12.	Bursts into tears when faced with a difficulty.			
13.	Has enterprising ideas which often don't work out.			
14.	Is distracted too easily by what is going on in the room, or seeks distractions.			
15.	Cannot settle into an activity.			

Preschool Learning Behaviors Scale - Copyright © 2014 by Edumetric and Clinical Science. The developer has given Carlin Llorente permission to use this scale for RTL purposes only. Do not duplicate without permission.

Page 2 of 4

		Most often applies	Sometimes applies	Doesn't apply
16.	Gets aggressive or hostile when frustrated.			
17.	Is very hesitant in talking about his or her activity.			
18.	Shows little determination to complete an activity, gives up easily.			
19.	Uses headaches or other pains as a means of avoiding participation.			
20.	Is willing to be helped.			
21.	Is too lacking in energy to be interested in anything or to make much effort.			
22.	Relies on personal charm to get others to find solutions to the problems he or she meets.			
23.	Invents silly ways of doing things.			
24.	Doesn't achieve anything constructive when in a mopey or sulky mood.			
25.	Shows a lively interest in the activities.			
26.	Tries hard but concentration soon fades and performance deteriorates.			
27.	Carries out tasks according to own ideas rather than in the accepted way.			
28.	Accepts new activities without fear or resistance.			
29.	Is dependent on adults for what to do, and takes few initiatives.			

Preschool Learning Behaviors Scale - Copyright © 2014 by Edumetric and Clinical Science. The developer has given Carlin Llorente permission to use this scale for RTL purposes only. Do not duplicate without permission.

Page 3 of 4



Appendix P. Math Concepts and Problem Solving

1. Displays an understanding of concepts related to Patterns, through independent/group play activities or conversations with peers and/or teachers. Displays an understanding of concepts related to Shape Recognition and Attributes, through independent/group play activities or conversations with peers and/or teachers. Displays an understanding of concepts related to Ordinal Numbers, through independent/group play activities or conversations with peers and/or teachers. 4. Displays an understanding of concepts related to Measureable Attributes, through independent/group play activities or conversations with peers and/or teachers. Displays an understanding of concepts related to Shatial Skills, through independent/group play activities or conversations with peers and/or teachers. 5. Displays an understanding of concepts related to Counting and Number conversations with peers and/or teachers. Displays an understanding of concepts related to Spatial Skills, through independent/group play activities or conversations with peers and/or teachers. 6. Displays an understanding of concepts related to Counting and Numeracy, through independententers. Displays an understanding of concepts related to Counting and Numeracy, through independent/group play activities or conversations with peers and/or teachers. 7. Displays the ability to apply mathematical skills appropriately when solving problems. 8. Displays the ability to recognize and use mathematics in their everyday life. Image: Contemplay activities or co		Most often applies	Sometimes applies	Does appl
Recognition and Attributes, through independent/group play activities or conversations with peers and/or teachers. Displays an understanding of concepts related to Ordinal Numbers, through independent/group play activities or conversations with peers and/or teachers. Displays an understanding of concepts related to Measureable Attributes, through independent/group play activities or conversations with peers and/or teachers. Displays an understanding of concepts related to Measureable Attributes, through independent/group play activities or conversations with peers and/or teachers. Displays an understanding of concepts related to Spatial Skills, through independent/group play activities or conversations with peers and/or teachers. Displays an understanding of concepts related to Counting and Numeracy, through independent/group play activities or conversations with peers and/or teachers. Displays the ability to apply mathematical skills appropriately when solving problems. Displays the ability to recognize and use mathematics in 	through independent/group play activities or conversations			
Numbers, through independent/group play activities or conversations with peers and/or teachers. Displays an understanding of concepts related to Measureable Attributes, through independent/group play activities or conversations with peers and/or teachers. Displays an understanding of concepts related to Spatial Skills, through independent/group play activities or conversations with peers and/or teachers. Displays an understanding of concepts related to Spatial Skills, through independent/group play activities or conversations with peers and/or teachers. Displays an understanding of concepts related to Counting and Numeracy, through independent/group play activities or conversations with peers and/or teachers. Displays the ability to apply mathematical skills appropriately when solving problems. Displays the ability to recognize and use mathematics in Displays the ability to recognize and use mathematics in 	Recognition and Attributes, through independent/group			
Measureable Attributes, through independent/group play activities or conversations with peers and/or teachers. Displays an understanding of concepts related to Spatial Skills, through independent/group play activities or conversations with peers and/or teachers. Displays an understanding of concepts related to Counting and Numeracy, through independent/group play activities or conversations with peers and/or teachers. Displays the ability to apply mathematical skills appropriately when solving problems. Displays the ability to recognize and use mathematics in 	Numbers, through independent/group play activities or			
Skills, through independent/group play activities or conversations with peers and/or teachers. Displays an understanding of concepts related to Counting and Numeracy, through independent/group play activities or conversations with peers and/or teachers. Displays the ability to apply mathematical skills appropriately when solving problems. Displays the ability to recognize and use mathematics in Displays the ability to recognize and use mathematics in 	Measureable Attributes, through independent/group play			
and Numeracy, through independent/group play activities or conversations with peers and/or teachers. Displays the ability to apply mathematical skills appropriately when solving problems. Displays the ability to recognize and use mathematics in Image: Comparison of the solution o	Skills, through independent/group play activities or			
appropriately when solving problems. L 8. Displays the ability to recognize and use mathematics in	and Numeracy, through independent/group play activities			
Developed by SRI International for RTL. Do not duplicate without permission.				

Appendix Q. Parent Pre-Survey

	IDS Parent Su Fechnology at	-						
		Home						
IMPORTANT: Please use a BLACK pen. Mark response boxes with an 🖄. Use block printing for any text or numeric responses.								
Please complete ONE s If you need a survey in Spanish or Chinese bu Si usted necesita una encuesta en español pe 如果您需要中文調查問卷,f	t do not have a copy, p ro no tiene copia, por fa	lease ask your child's teacher for assistance. avor pida al maestro de su hijo que lo ayude.						
	Parent/Guardian							
First name:								
Last name:								
Last name:								
Center Name:								
This survey includes questions about your use of questions about your family. If you have more the who is participating in this study. If you are attending the study kickoff meeting, p the meeting. If you are unable to attend the kick the attached envelope by Monday, November	an one child, please an ease return this survey off meeting, please retu 0 .	swer the questions thinking about the <i>child</i> to the researchers at the conclusion of urn this survey to your child's teacher in						
articipating in this survey is voluntary. By completing this survey, you are agreeing to participate. The information ou provide will be kept private and will not be shared with anyone at the preschool. Your name, your child's name, he name of your child's teacher, and the name of the preschool will not appear in any reports. If you do not want to articipate, no further action is needed. There are no negative consequences if you do not want to participate. Once bu agree, you can always change your mind and decide that you do not want to participate. There is no known risk or being a part of this study. By participating, you will be helping to identify new ways to support the development of boung children's math skills.								
for being a part of this study. By participating, yo young children's math skills.		ung children's math skills. e study is led by Education Development Center, Inc. and SRI International, non-profit research organizations that ve been active in education and community development for decades. If you have questions about this study, you ay contact Carlin Llorente at 650-859-2381 or by email at carlin.llorente@sri.com. For questions about your rights as participant in this study, please contact SRI's Human Subjects Committee at 650-859-2686. This study is funded by e Corporation for Public Broadcasting and the U.S. Department of Education.						

Technology at Home	I	ec	hn	ol	og	У	at	Hc	om	е
---------------------------	---	----	----	----	----	---	----	----	----	---

	ease look over the list of devices or services in the left hand column. hich, if any, do you have in your home? (Mark <u>all</u> that apply.)	I have this device in my household
а.	Television set	
b.	Cable or satellite TV	
с.	Paid video subscription (such as Hulu, Netflix, Amazon Prime)	
d.	DVD, Blu-ray or VHS player	
e.	Laptop or desktop computer	
f.	Smart phone (a phone that you can also use to send email, watch videos, or access the Internet)	
g.	Tablet device (such as an iPad, Galaxy Tab, Nexus 7, Microsoft Surface, or Kindle Fire)	
h.	Basic electronic reader (such as a Kindle or Nook)	
i.	Digital educational toys (such as LeapPad or VTech tablet)	
j.	iPod Touch or other type of video-playing iPod	
k.	Video game player that hooks up to your TV (such as an Xbox, PlayStation or Wii)	
١.	Handheld video game player (such as a GameBoy, Nintendo DS or PSP)	
m.	Other (Please Specify):	

2. Please tell us what kind of Internet access you have at home (if any). (Mark only one.)

I don't know if I have Internet access at home

I don't have Internet access at home

- I have Internet access at home, but I don't know what kind
- I have Internet access at home, but only on a cell phone
- Dial-up telephone access (through a modem)
- High-speed Internet access (such as broadband, cable modem, or DSL)

RTL Parent Survey 2014 English - Pre - White

Page 2 of 12

99999



3. Thinking just about last week, about how often did you...

(Mark one for <u>each</u> row.)	

	,	Never	1 to 2 times	3 to 4 times	Every day
a.	Watch non-children's shows on TV				
b.	Watch video on a cell phone, iPod, iPad, or similar device				
c.	Watch video on a laptop or desktop computer				
d.	Play video games on any device				
e.	Use a computer for something other than watching video or playing video games				
f.	Read books, magazines, or newspapers for pleasure, including electronically				

Your Child's Use of Technology

4. Thinking just about last week, about how often did your child do each of the following activities at home? (Mark one for each row.)

	Never	1 to 2 times	3 to 4 times	Every day
a. Watch TV, DVDs, online videos, or other types of videos				
b. Play games on a video game player, computer, or mobile device (like a cell phone)				
c. Use apps or software programs other than games/videos (like a photo app or drawing program)				
d. Read or look at electronic books				

RTL Parent Survey 2014 English - Pre - White	Page 3 of 12	999999	Draft

Report to the CPB-PBS Ready To Learn Initiative 99

a.		Never	1 to 2 times	3 to 4 times	Every day
	Watch educational TV, DVDs, online videos, or other types of videos				
b.	Play educational games on a video game player, computer, or mobile device (like a cell phone)				
tec	nking just about last week, about how much hnology (watching TV, using the computer, rk only one.)				
<u> </u>	ess than half an hour a day				
=	lalf an hour to 1 hour a day				
	-2 hours a day				
2	-3 hours a day				
3	-4 hours a day				
□ N	lore than 4 hours a day				
_	 For example: Dora the Explorer, Bubble Guppies, Team The Backyardigans, Yo Gabba Gabba! Disney or Disney Jr. For example: Mickey Mouse Clubhouse, Jake and the N Winnie the Pooh, Phineas and Ferb, Chuggington, Jess Other (please list): 	lever Land Pir			
Π.					
∟е	None of the above				

Time and Place for Technology Use

(Mark one for <u>each</u> row.)	Never	1 to 2 times	3 to 4 times	Every day
a. On his/her own				
b. With me or another parent or guardian				
c. With brothers or sisters				
d. With other children (for example, friends or cousins)				
e. With grandparents				
f. With other adult relatives (for example, aunts or uncles)				
 With someone else (for example, afterschool program or summer camp coordinator, neighbor, librarian, 				
babysitter) Please specify:				
	? (Mark <u>all</u> the paying bills)		omputer, p	olaying
Caring for other children Working Talking with friends or other adults	? (<i>Mark <u>all</u> the paying bills) aying bills)</i>		omputer, p	olaying
video games, etc.), what are you typically doing Doing household chores or tasks (like cooking, cleaning, or Caring for other children Working Talking with friends or other adults Talking with my child about what he or she is watching or pl Watching or playing together with my child Watching or playing separately from my child (on another de Sleeping or napping	? (<i>Mark <u>all</u> the paying bills) aying bills)</i>		omputer, p	laying
video games, etc.), what are you typically doing Doing household chores or tasks (like cooking, cleaning, or Caring for other children Working Talking with friends or other adults Talking with my child about what he or she is watching or pl Watching or playing together with my child Watching or playing separately from my child (on another de Sleeping or napping	? (<i>Mark <u>all</u> the paying bills) aying bills)</i>		omputer, p	laying
video games, etc.), what are you typically doing Doing household chores or tasks (like cooking, cleaning, or Caring for other children Working Talking with friends or other adults Talking with my child about what he or she is watching or pl Watching or playing together with my child Watching or playing separately from my child (on another de Sleeping or napping	? (<i>Mark <u>all</u> the paying bills) aying bills)</i>		omputer, p	olaying

10.	Thinking just about last week, did you use technology	
	with your child in any of the following ways?	

(Mark one for <u>each</u> row.)	Never	1 to 2 times	3 to 4 times	Every day
a. Watched shows, movies, or videos with my child				
b. Played digital games or apps with my child				
 c. Helped setting up the technology or fixing technology problems for my child (for example, if the game "freezes" or the computer needs to be restarted) 				
d. Asked questions about the show/game my child was watching/playing				
e. Answered questions my child asked me about the show/game he or she was watching/playing				
f. Made connections between the shows/games my child was watching/playing and things we do in our daily life (for example, talked about how we made pancakes for breakfast, just like Curious George made pancakes on the show your child watched)				

11. Thinking just about last week, about how often did your child use technology (watched TV, used the computer, etc.) while doing another activity at the same time, like playing with toys, riding in a car/bus/train, or eating a meal? (*Mark only one.*)

Never

- 1 to 2 times
- 3 to 4 times
- Every day

RTL Parent Survey 2014 English - Pre - White

Page 6 of 12

99999



Beliefs about Technology for Learning

12. Please indicate whether you agree or disagree with

the following statements. (Mark one for <u>each</u> row.)	Strongly agree	Agree	Disagree	Strongly disagree
a. Technology should be part of young children's learning.				
b. Young children spend too much time with technology.				
c. Technology encourages young children's creativity.				
d. Technology distracts young children from learning.				
e. Technology provides young children with information that they might not get at home or school.				
f. Using technology helps young children learn skills they will need the future.				
g. Technology is helpful for teaching math skills to young children.				
h. Technology is helpful for teaching reading skills to young children.				

13. How much has your child learned about each of the following areas from using technology? (For example, watching TV,

using a computer, etc.)? (Mark one for <u>each</u> row.)	A lot	Some	Only a little	Nothing	N/A
a. Math					
b. Science					
c. Reading or vocabulary					
d. Cooperation, manners, sharing or other social skills					
e. Memory, problem solving, or other cognitive skills					
f. Art or culture					
g. Healthy habits, like eating healthy foods or getting exercise					



Page 7 of 12

	If you monitor or limit your child's use of technology, please tell us HOW you do it.
	(Mark <u>all</u> that apply.)
	 I limit my child's total time with technology. I schedule particular times of day my child can or cannot watch/play.
	I limit the content (particular shows/games) my child can watch/play.
	☐ I limit which devices my child can use.
	I set limits by observing my child's use of technology.
	I set limits based on my child's behavior (e.g., allow technology use for good behavior).
	I do not monitor or limit my child's use of technology.
	Other (please specify):
15.	If you monitor or limit your child's use of technology, please tell us WHY you do it. (Mark <u>all</u> that apply.)
	I'm concerned about non-educational content.
	I want my child to have time for other activities, like outdoor play or time with friends.
	 I'm concerned about overuse of technology. I'm concerned about technology "addiction" and my child depending on technology too much.
	☐ I'm concerned about my child getting enough physical activity.
	I do not monitor or limit my child's use of technology.
	Cother (please specify):
	Other (please specify): Math Learning at Home
6.	
16.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice
16.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice at home or outside of school? (Mark <u>all</u> that apply.) □ Counting (for example, counting out loud by saying "1, 2, 3" or counting objects such as cookies or
16.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice at home or outside of school? (Mark all that apply.) Counting (for example, counting out loud by saying "1, 2, 3" or counting objects such as cookies or the fingers on their hands) Using ordinal numbers like first, second, third, fourth, fifth (for example, when walking up stairs or looking
16.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice at home or outside of school? (Mark <u>all</u> that apply.) Counting (for example, counting out loud by saying "1, 2, 3" or counting objects such as cookies or the fingers on their hands) Using ordinal numbers like first, second, third, fourth, fifth (for example, when walking up stairs or looking at the order of people standing in a line)
16.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice at home or outside of school? (Mark <u>all</u> that apply.) Counting (for example, counting out loud by saying "1, 2, 3" or counting objects such as cookies or the fingers on their hands) Using ordinal numbers like first, second, third, fourth, fifth (for example, when walking up stairs or looking at the order of people standing in a line) Identifying written numbers (for example, the number "1" on the page of a book, or on a sign at the store)
16.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice at home or outside of school? (Mark <u>all</u> that apply.) Counting (for example, counting out loud by saying "1, 2, 3" or counting objects such as cookies or the fingers on their hands) Using ordinal numbers like first, second, third, fourth, fifth (for example, when walking up stairs or looking at the order of people standing in a line) Identifying written numbers (for example, the number "1" on the page of a book, or on a sign at the store) Recognizing or drawing shapes (for example, laying out snackscracker, grape, cracker, grape
16.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice at home or outside of school? (Mark <u>all</u> that apply.) Counting (for example, counting out loud by saying "1, 2, 3" or counting objects such as cookies or the fingers on their hands) Using ordinal numbers like first, second, third, fourth, fifth (for example, when walking up stairs or looking at the order of people standing in a line) Identifying written numbers (for example, the number "1" on the page of a book, or on a sign at the store) Recognizing or drawing shapes (for example, recognizing or drawing circles, triangles, or squares) Recognizing or creating patterns (for example, laying out snackscracker, grape, cracker, grape or colored blocks red, red, blue, red, red, blue in a pattern)
16.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice at home or outside of school? (Mark all that apply.) Counting (for example, counting out loud by saying "1, 2, 3" or counting objects such as cookies or the fingers on their hands) Using ordinal numbers like first, second, third, fourth, fifth (for example, when walking up stairs or looking at the order of people standing in a line) Identifying written numbers (for example, the number "1" on the page of a book, or on a sign at the store) Recognizing or drawing shapes (for example, recognizing or drawing circles, triangles, or squares) Recognizing or creating patterns (for example, laying out snackscracker, grape, cracker, grape or colored blocks red, red, blue, red, red, blue in a pattern) Addition (for example, knowing how many crackers you have when you add one to the pile)
16.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice at home or outside of school? (Mark <u>all</u> that apply.) Counting (for example, counting out loud by saying "1, 2, 3" or counting objects such as cookies or the fingers on their hands) Using ordinal numbers like first, second, third, fourth, fifth (for example, when walking up stairs or looking at the order of people standing in a line) Identifying written numbers (for example, the number "1" on the page of a book, or on a sign at the store) Recognizing or drawing shapes (for example, recognizing or drawing circles, triangles, or squares) Recognizing or creating patterns (for example, laying out snackscracker, grape, cracker, grape or colored blocks red, red, blue, red, red, blue in a pattern) Addition (for example, knowing how many crackers you have when you add one to the pile) Subtraction (for example, knowing how many berries are left after eating some) Measurement (for example, measuring size with hands or rulers, measuring water with cups, or measuring
16.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice at home or outside of school? (Mark <u>all</u> that apply.) Counting (for example, counting out loud by saying "1, 2, 3" or counting objects such as cookies or the fingers on their hands) Using ordinal numbers like first, second, third, fourth, fifth (for example, when walking up stairs or looking at the order of people standing in a line) Identifying written numbers (for example, the number "1" on the page of a book, or on a sign at the store) Recognizing or drawing shapes (for example, recognizing or drawing circles, triangles, or squares) Recognizing or creating patterns (for example, laying out snackscracker, grape, cracker, grape

17.	Ρle	ease indicate whether you agree or disagree with				
		e following statements. (Mark one for <u>each</u> row.)	Strongly Agree	Agree	Disagree	Strongly disagree
	a.	Young children (ages 3-5) learn math mainly at school, not at home.				
	b.	I can help my child learn math and other skills like reading and writing.				
	C.	I am confident in my ability to help my child learn and talk about math.				
	d.	Young children (age 3-5) generally like math and are interested in it.				
	e.	Math is too difficult for young children (ages 3-5) to understand.				
	f.	I like helping my child learn about math.				
	g.	Math can be taught any time throughout the day.				
	h.	Part of my role as a parent is to teach math to my children.				

Approaches to Learning

18. Thinking just about last week, how often did your child...

(Mark one for <u>each</u> row.)	Never	Once or twice	Three or four times	Five or more times
a. Complete a task or activity that took 10 minutes or longer (for example, completing a puzzle or putting away toys)?				
b. Calm him/herself down when frustrated?				
c. Ask for help when he or she was having trouble with solving a problem?				

19. Thinking just about last week,

how often did you (Mark one for <u>each</u> row.)	Never	Once or twice	Three or four times	Five or more times
a. Ask your child to follow more than one direction (for example, "Take off your coat, hang it on the hook, and pick out a game to play")?				
b. Help your child to solve a problem?				
c. Help your child to think of a different way to solve a problem?				
 d. Help your child explore "what if" scenarios? (for example, "What if we leave the ice sitting in the sun?" 				
e. Help your child to calm him/herself down when frustrated?				
f. Offer encouragement on something your child was doing? (for example, "You worked really hard to find a way to put those puzzle pieces together."				
g. Help your child to see mistakes as a natural part of learning?				
RTL Parent Survey 2014 English - Pre - White Page 9 of 12		99	999	Draft

PEG+CAT QUESTION	

c. Sid the Science Kid

- 20. In the past two weeks, how often has your child watched these PBS KIDS shows? 0 Don't 1-2 3-4 5-6 (Mark one for each row.) Know times times times times a. Super Why! b. PEG+CAT c. Sid the Science Kid
- 21. In the past two weeks, how often has your child played digital games based on these PBS KIDS shows? (Mark one for each row.) Don't 0 1-2 3-4 times times Know times a. Super Why! b. PEG+CAT

RTL Parent Survey 2014 English - Pre - White

Page 10 of 12

More

than 6

times

More

than 6

times

5-6

times

10th grade 11th grade High School Diploma or GED Some college or technical school classes (no diploma) Associate's Degree (BA, BS) Graduate or Professional Degree Don't know 23. Please indicate the highest level of education the child's father completed? (Mark only one.) Mo formal schooling Bth grade 10th grade 11th grade White (Non-Hispanic) Btack or African-American Associate's Degree (AA, AS) or Technical Degree Don't know 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Less than \$25,000 \$50,000-\$74,000 25. Does the child listed on this survey have an IEP (individualized education program) or a 504 Plan? (Mark only one.) Mai Image: No	BACKGROUND INFORMATION We want our materials to be useful to a wide range of child about you and your child. Please answer the following quest	
Bith grade or less 9 th grade 10 th grade 11 th grade High School Diploma or GED Some college or technical school classes (<i>no diploma</i>) Associate's Degree (AA, AS) or Technical Degree Bachelor's Degree (AA, AS) Don't know 23. Please indicate the highest level of education the child's father completed? (<i>Mark all that apply.</i>) Bith grade or less 9 th grade 10 th grade 11 th grade 11 th grade 12 th grade 13 th grade 14 th grade 15 th grade 10 th grade 11 th grade 12 th th apply. 23 th th asotool thasson	education the child's mother completed?	understand, or hear at home?
Bith grade or less 9 th grade 10 th grade 11 th grade High School Diploma or GED Some college or technical school classes (<i>no diploma</i>) Associate's Degree (AA, AS) or Technical Degree Bachelor's Degree (AA, AS) Don't know 23. Please indicate the highest level of education the child's father completed? (<i>Mark all that apply.</i>) Bith grade or less 9 th grade 10 th grade 11 th grade 11 th grade 12 th grade 13 th grade 14 th grade 15 th grade 10 th grade 11 th grade 12 th th apply. 23 th th asotool thasson		
10th grade 11th grade High School Diploma or GED Some college or technical school classes (no diploma) Associate's Degree (BA, BS) Graduate or Professional Degree Don't know 23. Please indicate the highest level of education the child's father completed? (Mark only one.) Mo formal schooling Bth grade 10th grade 11th grade White (Non-Hispanic) Btack or African-American Associate's Degree (AA, AS) or Technical Degree Don't know 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Less than \$25,000 \$50,000-\$74,000 25. Does the child listed on this survey have an IEP (individualized education program) or a 504 Plan? (Mark only one.) Mai Image: No	8th grade or less	
11th grade Vietnamese High School Diploma or GED Other (please describe): Some college or technical school classes (no diploma) Associate's Degree (BA, BS) Graduate or Professional Degree Don't know 27.Please indicate the highest level of education the child's father completed? (Mark only one.) White (Non-Hispanic) No formal schooling Black or African-American Bth grade or less Associate's Degree (BA, AS) or Technical Degree 9th grade Native Hawaiian or Other Pacific Islander Associate's Degree (BA, AS) or Technical Degree Native Hawaiian or Other Pacific Islander Associate's Degree (BA, AS) or Technical Degree Other (please specify): 10th grade Other (please indicate your child's gender (Mark only one.) Graduate or Professional Degree Onth' know 28. Please indicate your child's gender (Mark only one.) Male Graduate or Professional Degree Mother Don't know 29. What is your relationship to the child listed on this survey have an IEP (Individualized education program) or a 504 Plan? (Mark only one.) Stopes the child listed on this survey have an IEP (Individualized education program) or a 504 Plan? (Mark only one.) Mother Y ese No Other (please specif	9th grade	Chinese (Mandarin, Cantonese, or other)
High School Diploma or GED Other (please describe): Some college or technical school classes (no diploma) Associate's Degree (AA, AS) or Technical Degree Bachelor's Degree (BA, BS) Graduate or Professional Degree Don't know 23. Please indicate the highest level of education the child's father completed? (Mark only one.) No formal schooling Bth grade or less 10th grade 10th grade High School Diploma or GED Some college or technical school classes (no diploma) Associate's Degree (AA, AS) or Technical Degree Bachelor's Degree (BA, BS) Graduate or Professional Degree Don't know 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Less than \$25,000 \$75,000-\$99,000 \$25,000-\$49,000 \$100,000 or more \$25,000-\$49,000 </td <td>10th grade</td> <td>French</td>	10th grade	French
Some college or technical school classes (no diploma) Associate's Degree (AA, AS) or Technical Degree Bachelor's Degree (BA, BS) Graduate or Professional Degree Don't know 23. Please indicate the highest level of education the child's father completed? (Mark only one.) No formal schooling Bth grade or less 9th grade 10th grade 10th grade 10th grade Graduate or Professional Degree Backolor's Degree (BA, BS) Graduate or less 9th grade 10th grade 10th grade Graduate or Professional Degree Bachelor's Degree (BA, BS) Graduate or Professional Degree Bachelor's Degree (BA, BS) Graduate or Professional Degree Don't know 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Less than \$25,000 § \$75,000-\$99,000 \$25,000-\$49,000 \$100,000 or more \$25,000-\$449,000 \$100,000 or more \$25,000-\$449,000 \$100,000 or more \$25,000-\$449,000 \$100,000 or more \$25,000-\$449,000 \$100,000 or m	11th grade	☐ Vietnamese
Associate's Degree (AA, AS) or Technical Degree Bachelor's Degree (BA, BS) Graduate or Professional Degree Don't know 23. Please indicate the highest level of education the child's father completed? (Mark only one.) No formal schooling Bith grade or less 9 th grade 10th grade 10th grade Bachelor's Degree (BA, BS) Carduate or Professional Degree Bachelor's Degree (BA, BS) Graduate or Professional Degree Bachelor's Degree (BA, BS) Graduate or Professional Degree Bachelor's Degree (BA, BS) Graduate or Professional Degree Don't know 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Less than \$25,000 \$75,000.\$99,000 \$25,000-\$49,000 \$100,000 or more \$25,000-\$49,000 \$100,000	High School Diploma or GED	Other (please describe):
Bachelor's Degree (BA, BS) Graduate or Professional Degree Don't know 23. Please indicate the highest level of education the child's father completed? (Mark only one.) No formal schooling Bth grade or less 9 th grade 10th grade 11th grade High School Diploma or GED Some college or technical school classes (no diploma) Associate's Degree (BA, BS) Graduate or Professional Degree Don't know 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Less than \$25,000 \$75,000-\$99,000 \$25. Does the child listed on this survey have an IEP (individualized education program) or a \$04 Plan? (Mark only one.) Yes No	Some college or technical school classes (<i>no diploma</i>)	
Graduate or Professional Degree 27.Please indicate your child's race or ethnicity. (Mark all that apply.) 23. Please indicate the highest level of education the child's father completed? (Mark only one.) White (Non-Hispanic) 23. Please indicate the highest level of education the child's father completed? (Mark only one.) White (Non-Hispanic) 23. Please indicate your child's race or ethnicity. (Mark all that apply.) Status 23. Please indicate your child's race or ethnicity. (Mark all that apply.) Status 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Status 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Status 25. Does the child listed on this survey have an IEP (individualized education program) or a 504 Plan? (Mark only one.) Mother 25. No Status Grandmather 26. No Status Grandfather 27. Please indicate ducation program) or a SO4 Plan? (Mark only one.) Status	Associate's Degree (AA, AS) or Technical Degree	
□ Don't know 27. Please indicate your child's race or ethnicity. (Mark all that apply.) 23. Please indicate the highest level of education the child's father completed? (Mark only one.) □ White (Non-Hispanic) □ No formal schooling □ White (Non-Hispanic) □ Some college or less □ Asian □ 10th grade □ Asian □ 10th grade □ Ative Hawaiian or Other Pacific Islander □ High School Diploma or GED □ Native Hawaiian or Other Pacific Islander □ Some college or technical school classes (no diploma) □ Associate's Degree (AA, AS) or Technical Degree □ Backelor's Degree (BA, BS) □ Graduate or Professional Degree □ Don't know □ Male 24. What was the total combined income of all members of this household in 2013? Male □ Less than \$25,000 □ \$75,000-\$99,000 □ Stropo, 000 □ \$100,000 or more □ \$25,000-\$49,000 □ \$100,000 or more □ Father □ Stropo, 000 □ \$74,000 □ Other (please specify): □ Child listed on this survey have an IEP (individualized education program) or a 504 Plan? (Mark only one.) □ Other (please specify): □ Yes □ No	Bachelor's Degree (BA, BS)	
23. Please indicate the highest level of education the child's father completed? (Mark only one.) ethnicity. (Mark all that apply.) 23. Please indicate the highest level of education the child's father completed? (Mark only one.) White (Non-Hispanic) No formal schooling Hispanic or Latino Black or African-American Asian No formal schooling Assian Inth grade Assian 10th grade American Indian or Other Pacific Islander 11th grade American Indian or Alaska Native 11th grade Other (please specify): Associate's Degree (AA, AS) or Technical Degree Bachelor's Degree (BA, BS) Graduate or Professional Degree Mark only one.) Don't know Male Stop.000-\$74,000 \$75,000-\$99,000 \$25,000-\$49,000 \$75,000-\$99,000 \$25,000-\$49,000 \$100,000 or more		
23. Please indicate the highest level of education the child's <u>father</u> completed? (Mark only one.) White (Non-Hispanic) Hispanic or Latino Black or African-American Asian Black or African-American Asian Asian Native Hawaiian or Other Pacific Islander Asian Atain or Alaska Native Other (please specify): High School Diploma or GED Some college or technical school classes (no diploma) Associate's Degree (AA, AS) or Technical Degree Bachelor's Degree (BA, BS) Graduate or Professional Degree Don't know 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Less than \$25,000 \$75,000-\$99,000 \$25,000-\$49,000 \$100,000 or more \$26,000-\$74,000 \$100,000 or more \$26,000-\$74,000 \$100,000 or more \$26,000-\$49,000 \$100,000 or more \$26,000-\$49,000 \$100,000 or more \$26,000-\$49,000 \$100,000 or	Don't know	
education the child's father completed? (Mark only one.) Hispanic or Latino No formal schooling Black or African-American Bth grade or less Native Hawaiian or Other Pacific Islander 9th grade Asian 10th grade Other (please specify): 11th grade Other (please indicate your child's gender (Mark only one.) Associate's Degree (BA, BS) Graduate or Professional Degree Don't know Backelor's Degree (BA, BS) 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Male Less than \$25,000 \$75,000-\$99,000 \$25. Does the child listed on this survey have an IEP (individualized education program) or a 504 Plan? (Mark only one.) Mother Yes No		
only one.) Black or African-American No formal schooling Asian Bth grade or less Native Hawaiian or Other Pacific Islander 9th grade American Indian or Alaska Native 10th grade Other (please specify): 11th grade Other (please specify): High School Diploma or GED Other (please specify): Some college or technical school classes (no diploma) Some college or technical school classes (no diploma) Associate's Degree (BA, BS) Graduate or Professional Degree Backelor's Degree (BA, BS) Male Graduate or Professional Degree Male Don't know Pemale 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Male Less than \$25,000 \$75,000-\$99,000 \$25,000-\$49,000 \$100,000 or more	•	
No formal schooling No formal schooling Sth grade or less 9th grade 10th grade 10th grade 10th grade 11th grade High School Diploma or GED Some college or technical school classes (no diploma) Associate's Degree (AA, AS) or Technical Degree Bachelor's Degree (BA, BS) Graduate or Professional Degree Don't know 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Less than \$25,000 \$\$75,000-\$\$99,000 \$25,000-\$49,000 \$\$100,000 or more \$26,000-\$49,000 \$\$100,000 or more \$27,000-\$49,000 \$\$100,000 or more \$28,000-\$49,000 \$\$100,000 or more \$29,000-\$49,000 \$\$100,000 or more \$26,000-\$49,000 \$\$100,000 or more \$27,000-\$49,000 \$\$100,000 or more \$28,000-\$49,000 \$\$100,000 or more \$29,000-\$49,000 \$\$100,000 or more \$29,000-\$49,000 \$\$100,000 or more \$20,000-\$74,000 \$20,000-\$74,000		
8th grade or less 9th grade 10th grade 10th grade 10th grade 11th grade High School Diploma or GED Some college or technical school classes (no diploma) Associate's Degree (AA, AS) or Technical Degree Bachelor's Degree (BA, BS) Graduate or Professional Degree Don't know 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Less than \$25,000 \$75,000-\$99,000 \$25,000-\$49,000 \$100,000 or more \$25,000-\$49,000 \$100,000 or more <t< td=""><td></td><td></td></t<>		
9th grade 10th grade 11th grade High School Diploma or GED Some college or technical school classes (no diploma) Associate's Degree (AA, AS) or Technical Degree Bachelor's Degree (BA, BS) Graduate or Professional Degree Don't know 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Less than \$25,000 \$75,000-\$99,000 \$25,000-\$49,000 \$25,000-\$74,000 25. Does the child listed on this survey have an IEP (individualized education program) or a 504 Plan? (Mark only one.) Yes No		
10th grade 11th grade High School Diploma or GED Some college or technical school classes (no diploma) Associate's Degree (AA, AS) or Technical Degree Bachelor's Degree (BA, BS) Graduate or Professional Degree Don't know 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Less than \$25,000 \$75,000-\$99,000 \$25,000-\$49,000 \$100,000 or more \$25,000-\$74,000 25. Does the child listed on this survey have an IEP (individualized education program) or a 504 Plan? (Mark only one.) Yes No		
11th grade High School Diploma or GED Some college or technical school classes (no diploma) Associate's Degree (AA, AS) or Technical Degree Bachelor's Degree (BA, BS) Graduate or Professional Degree Don't know 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Less than \$25,000 \$75,000-\$99,000 \$25,000-\$49,000 \$100,000 or more \$25,000-\$49,000 \$100,000 or more \$50,000-\$74,000 25. Does the child listed on this survey have an IEP (individualized education program) or a 504 Plan? (Mark only one.) Yes No		
High School Diploma or GED Some college or technical school classes (no diploma) Associate's Degree (AA, AS) or Technical Degree Bachelor's Degree (BA, BS) Graduate or Professional Degree Don't know 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Less than \$25,000 □ \$75,000-\$99,000 \$25,000-\$49,000 □ \$100,000 or more \$25,000-\$74,000 25. Does the child listed on this survey have an IEP (individualized education program) or a 504 Plan? (Mark only one.) Yes No	_ ·	
 Some college or technical school classes (<i>no diploma</i>) Associate's Degree (AA, AS) or Technical Degree Bachelor's Degree (BA, BS) Graduate or Professional Degree Don't know 24. What was the total combined income of all members of this household in 2013? (<i>Mark only one.</i>) Less than \$25,000 \$75,000-\$99,000 \$25,000-\$49,000 \$100,000 or more \$25,000-\$74,000 Stonoo-\$74,000 Stonoo-\$7		
Associate's Degree (AA, AS) or Technical Degree Bachelor's Degree (BA, BS) Graduate or Professional Degree Don't know 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Less than \$25,000 \$75,000-\$99,000 \$25,000-\$49,000 \$100,000 or more \$25,000-\$74,000 25. Does the child listed on this survey have an IEP (individualized education program) or a 504 Plan? (Mark only one.) Yes No 28. Please indicate your child's gender (Mark only one.) 29. What is your relationship to the child listed on this survey? (Mark only one.) Grandmather Guardian Other (please specify):		
Bachelor's Degree (BA, BS) 28. Please indicate your child's gender (Mark only one.) Graduate or Professional Degree Male Don't know Female 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Bachelor's Degree (BA, BS) Less than \$25,000 \$75,000-\$99,000 \$25,000-\$49,000 \$100,000 or more \$50,000-\$74,000 Grandmother Grandmother Grandmother Grandfather Guardian What only one.) Other (please specify):	_ * * * *	
 Graduate or Professional Degree Don't know 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Less than \$25,000 \$75,000-\$99,000 \$25,000-\$49,000 \$100,000 or more \$50,000-\$74,000 Xo Male Female 29. What is your relationship to the child listed on this survey? (Mark only one.) Mother Grandmother Grandfather Guardian Other (please specify): 		28. Please indicate your child's gender
 Don't know Male Female 24. What was the total combined income of all members of this household in 2013? (Mark only one.) Less than \$25,000 \$75,000-\$99,000 \$25,000-\$49,000 \$100,000 or more \$50,000-\$74,000 Stopes the child listed on this survey have an IEP (individualized education program) or a 504 Plan? (Mark only one.) Yes No 		(Mark only <u>one</u> .)
24. What was the total combined income of all members of this household in 2013? 29. What is your relationship to the child listed on this survey? (Mark only one.) Less than \$25,000 \$75,000-\$99,000 \$75,000-\$99,000 \$100,000 or more \$50,000-\$74,000 Stop,000-\$74,000 Sto		Male
all members of this household in 2013? 29. What is your relationship to the child listed on this survey? (Mark only one.) Less than \$25,000 \$75,000-\$99,000 \$75,000-\$99,000 \$25,000-\$49,000 \$100,000 or more Grandmother \$50,000-\$74,000 Grandmother 25. Does the child listed on this survey have an IEP (individualized education program) or a 504 Plan? (Mark only one.) Other (please specify): Yes No		Female
(Mark only one.) on this survey? (Mark only one.) Less than \$25,000 \$75,000-\$99,000 \$25,000-\$49,000 \$100,000 or more \$50,000-\$74,000 Grandmother Grandmother Grandfather \$04 Plan? (Mark only one.) Other (please specify): Yes No		29 What is your relationship to the child listed
Less than \$25,000 \$75,000-\$99,000 \$25,000-\$49,000 \$100,000 or more \$50,000-\$74,000 Grandmother Construction Grandfather Grandfather Guardian Construction Other (please specify):		
\$25,000-\$49,000 \$100,000 or more \$50,000-\$74,000 Grandmother 25. Does the child listed on this survey have an IEP (individualized education program) or a 504 Plan? (Mark only one.) Grandfather Yes Other (please specify):		
\$50,000-\$74,000 Grandmother 25. Does the child listed on this survey have an IEP (individualized education program) or a 504 Plan? (Mark only one.) Grandfather Yes Other (please specify): No No		
25. Does the child listed on this survey have an IEP (individualized education program) or a 504 Plan? (Mark only one.) Grandfather Yes Other (please specify): No No		
25. Does the child listed on this survey have an IEP (individualized education program) or a 504 Plan? (Mark only one.) Guardian Yes Other (please specify): No No	<u> </u>	
IEP (individualized education program) or a 504 Plan? (Mark only one.) Yes No	25. Does the child listed on this survey have an	
504 Plan? (Mark only one.) Yes No		
□ No		
	Yes	
	□ No	
I don't know	I don't know	

Appendix R. Parent Post-Survey

PBS KIDS Parent Survey Family Technology at Home IMPORTANT: Please use a BLACK pen. Mark response boxes with an Description: Descri	-9E0	ARI	ADY TO	LEARN	sar					П	БС		חו	с г			4 C	·											
IMPORTANT: Please use a BLACK pen. Mark response boxes with an 文. Use block printing for any text or numeric responses. Please complete ONE survey, either in English, Spanish, or Chinese. If you need a survey in Spanish or Chinese but do not have a copy, please ask your child's teacher for assist Si usted necesita una encuesta en español pero no tiene copia, por favor pida al maestro de su hijo que lo ay 如果您需要中文調查問卷,但是手邊卻没有,請问您孩子的老師尋求幫助。 Parent/Guardian First name: Child Participating in the Study First name: Child Participating in the Study First name: Center Name: Cen									F											-	•								
Use block printing for any text or numeric responses. Please complete ONE survey, either in English, Spanish, or Chinese. If you need a survey in Spanish or Chinese but do not have a copy, please ask your child's teacher for assists Si usted necesita una encuesta en español pero no tiene copia, por favor pida al maestro de su hijo que lo ar																													
If you need a survey in Spanish or Chinese but do not have a copy, please ask your child's teacher for assist. Si usted necesita una encuesta en español pero no tiene copia, por favor pida al maestro de su hijo que lo ar 如果您需要中文調查問卷,但是手递卻沒有,請向您孩子的老師尋求幫助。 Parent/Guardian First name: 						IMI	POR															with	an	X .					
Parent/Guardian First name:				eces	sita ı	una	n Sp enc	anisl uesta	n or a en	Chi	nese baño	e but I pe	t do ro n	not l o tie	have ne c	e a c opia	opy , po	, ple r fav	ase or p	ask ida i	youi al m	r chi aest	ld's ro d	teac e su	ı hijo	o qu			
First name:						,	***	1.25			. u .									~ ,	P.4		,	<u>а.</u> н.	9-20				
Child Participating in the Study First name: First name: Center Name: Center Name: This survey includes questions about your use of technology, your child's use of technology and some backgrou questions about your family. If you have more than one child, please answer the questions thinking about the <i>ch</i> who is participating in this survey to the researchers at the conclusion of the meeting. Participating in this survey is voluntary. By completing this survey, you are agreeing to participate. The informat you provide will be kept private and will not be shared with anyone at the preschool. Your name, your child's name the name of your child's teacher, and the name of the preschool will not appear in any reports. If you do not wait	First	nar	ne:										Par	ent	/Gl			ו 											-
Child Participating in the Study First name: First name: Center Name: Center Name: This survey includes questions about your use of technology, your child's use of technology and some backgrou questions about your family. If you have more than one child, please answer the questions thinking about the <i>ch</i> who is participating in this survey to the researchers at the conclusion of the meeting. Participating in this survey is voluntary. By completing this survey, you are agreeing to participate. The informat you provide will be kept private and will not be shared with anyone at the preschool. Your name, your child's name the name of your child's teacher, and the name of the preschool will not appear in any reports. If you do not wait									-																				
First name:	∟ast	nar	ne:										1											1	1				Т
First name:																												\bot	L
This survey includes questions about your use of technology, your child's use of technology and some backgrou questions about your family. If you have more than one child, please answer the questions thinking about the <i>ch</i> <i>who is participating in this study</i> . Please return this survey to the researchers at the conclusion of the meeting. Participating in this survey is voluntary. By completing this survey, you are agreeing to participate. The informat you provide will be kept private and will not be shared with anyone at the preschool. Your name, your child's name the name of your child's teacher, and the name of the preschool will not appear in any reports. If you do not wait	_ast	nar	ne:																										
This survey includes questions about your use of technology, your child's use of technology and some backgrou questions about your family. If you have more than one child, please answer the questions thinking about the <i>ch</i> <i>who is participating in this study</i> . Please return this survey to the researchers at the conclusion of the meeting. Participating in this survey is voluntary. By completing this survey, you are agreeing to participate. The informat you provide will be kept private and will not be shared with anyone at the preschool. Your name, your child's nat the name of your child's teacher, and the name of the preschool will not appear in any reports. If you do not wait																													
This survey includes questions about your use of technology, your child's use of technology and some backgrou questions about your family. If you have more than one child, please answer the questions thinking about the <i>cf</i> <i>who is participating in this study</i> . Please return this survey to the researchers at the conclusion of the meeting. Participating in this survey is voluntary. By completing this survey, you are agreeing to participate. The informat you provide will be kept private and will not be shared with anyone at the preschool. Your name, your child's nat the name of your child's teacher, and the name of the preschool will not appear in any reports. If you do not wait	Cen	er 1	Jam	<u>م</u> .																									
questions about your family. If you have more than one child, please answer the questions thinking about the <i>cl</i> who is participating in this study. Please return this survey to the researchers at the conclusion of the meeting. Participating in this survey is voluntary. By completing this survey, you are agreeing to participate. The informat you provide will be kept private and will not be shared with anyone at the preschool. Your name, your child's nai the name of your child's teacher, and the name of the preschool will not appear in any reports. If you do not wai	0011	.01 1	taini	0.																								Τ	Т
questions about your family. If you have more than one child, please answer the questions thinking about the <i>cl</i> who is participating in this study. Please return this survey to the researchers at the conclusion of the meeting. Participating in this survey is voluntary. By completing this survey, you are agreeing to participate. The informat you provide will be kept private and will not be shared with anyone at the preschool. Your name, your child's nai the name of your child's teacher, and the name of the preschool will not appear in any reports. If you do not wai							1				1		1	1							I			1	1	1			1
the name of your child's teacher, and the name of the preschool will not appear in any reports. If you do not wa	que who Plea Par	stion <i>is p</i> ise i icipa	ns al partio retur ating	cipa rn th g in t	you ting is su his s	ir fa <i>in th</i> urve surv	mily. nis si y to ey is	If yo tudy. the i s volu	ou h rese unta	ave arch 1ry. E	more ners By co	e tha at th omp	an o he c letin	one c oncli ig thi	hild, usio	plea n of irvey	ase the /, yo	ansv mee u ar	ver t ting e ag	he c	ques ng to	tion:	s thi	nkin bate.	g ab . The	oout e inf	the	<i>child</i> ation	1
participate, no further action is needed. There are no negative consequences if you do not want to participate. O you agree, you can always change your mind and decide that you do not want to participate. There is no known for being a part of this study. By participating, you will be helping to identify new ways to support the developme young children's math skills.	the part you	ham icipa agri iein	e of ate, i ee, y g a p	you no fi vou o part	r ch urthe can a of th	ild's er ao alwa nis s	tead tion ays o tudy	cher, is n chan . By	and eed ge y	d the ed. 'our	e nar Ther mino	ne o e ar d an	of the re no d de	e pre neg ecide	esch gativ tha	ool ν e co t you	will r nse u do	not a quer not	appe nces wan	ar ir if yo t to	n any ou de parti	/ rep o no cipa	oorts t wa ite. 1	int to Ther	/ou o pai e is	do n rticip no k	ot w bate. know	/ant t . Onc /n ris	to ce sk
The study is led by Education Development Center, Inc. and SRI International, non-profit research organizatior that have been active in education and community development for decades. If you have questions about this you may contact Yelee Jo at 212-807-4209 or by email at YJo@edc.org. For questions about your rights as a participant in this study, please contact EDC's Human Subjects Committee at 617-618-2731. This study is func by the Corporation for Public Broadcasting and the U.S. Department of Education.				lod	by I	Edu	catio	on De	evel	opm	ent																		

Please look over the list of devices or services in the left hand column. Which, if any, do you have in your home? (Mark <u>all</u> that apply.)	I have this device in my household
a. Television set	
b. Cable or satellite TV	
c. Paid video subscription (such as Hulu, Netflix, Amazon Prime)	
d. DVD, Blu-ray or VHS player	
e. Laptop or desktop computer	
f. Smart phone (a phone that you can also use to send email, watch videos, or access the Internet)	
g. Tablet device (such as an iPad, Galaxy Tab, Nexus 7, Microsoft Surface, or Kindle Fire)	
h. Basic electronic reader (such as a Kindle or Nook)	
i. Digital educational toys (such as LeapPad or VTech tablet)	
j. iPod Touch or other type of video-playing iPod	
k. Video game player that hooks up to your TV (such as an Xbox, PlayStation or Wii)	
I. Handheld video game player (such as a GameBoy, Nintendo DS or PSP)	
m. Other (Please Specify):	

2. Please tell us what kind of Internet access you have at home (if any). (Mark only one.)

- I don't know if I have Internet access at home
- I don't have Internet access at home
- I have Internet access at home, but I don't know what kind
- I have Internet access at home, but only on a cell phone
- Dial-up telephone access (through a modem)
- High-speed Internet access (such as broadband, cable modem, or DSL)

RTL Parent Survey 2015
English (post) - Yellow

Page 2 of 12



3. Thinking just about last week, about how often did you...

(Mark one for each row.)				
(Mark one for <u>each</u> fow.)	Never	1 to 2 times	3 to 4 times	Every day
a. Watch non-children's shows on TV				
b. Watch video on a cell phone, iPod, iPad, or similar device				
c. Watch video on a laptop or desktop computer				
d. Play video games on any device				
e. Use a computer for something other than watching video or playing video games				
f. Read books, magazines, or newspapers for pleasure, including electronically				

Your Child's Use of Technology

4. Thinking just about last week, about how often did your child do each of the following activities at home?

(Mark one for <u>each</u> row.)	Never	1 to 2 times	3 to 4 times	Every day
a. Watch TV, DVDs, online videos, or other types of videos				
b. Play games on a video game player, computer, or mobile device (like a cell phone)				
c. Use apps or software programs other than games/videos (like a photo app or drawing program)				
d. Read or look at electronic books				



RTL Parent Survey 2015 English (post) - Yellow

Page 3 of 12



	other skills. (Mark one for <u>each</u> row.)	Never	1 to 2 times	3 to 4 times	Every day
	a. Watch educational TV, DVDs, online videos, or other types of videos				
	 Play educational games on a video game player, computer, or mobile device (like a cell phone) 				
	 echnology (watching TV, using the computer, <i>Mark only <u>one</u>.)</i> Less than half an hour a day Half an hour to 1 hour a day 1-2 hours a day 2-3 hours a day 3-4 hours a day 3-4 hours a day More than 4 hours a day More than 4 hours a day More than 4 hours a day a. PBS (Channel 13 or WLIW21 in NYC, KQED in Bay Al For example: Sesame Street, The Cat in the Hat, Sid the Super Why!, Dinosaur Train b. Nickelodeon or Nick Jr. For example: Dora the Explorer, Bubble Guppies, Team The Backyardigans, Yo Gabba Gabba! c. Disney or Disney Jr. 	vision cha rea, or Sprou Science Kid	nnels at ho It channel) , Curious Geor	me? ge,	uuy :
_	For example: Mickey Mouse Clubhouse, Jake and the N Winnie the Pooh, Phineas and Ferb, Chuggington, Jess		rates, Doc McS	Stuffins,	
Γ	d. Other (please list):				
Г	e. None of the above				
_					

Time and Place for Technology Use

		Never	1 to 2 times	3 to 4 times	Every day
a. On his/her own					
b. With me or another parent o	r guardian				
c. With brothers or sisters					
d. With other children (for exan	nple, friends or cousins)				
e. With grandparents					
f. With other adult relatives (fo	r example, aunts or uncles)				
g. With someone else (for exar summer camp coordinator, r					
babysitter) <i>Please specify:</i>			•		
video games, etc.), what Doing household chores or ta Caring for other children Working Talking with friends or other a Talking with my child about with	are you typically doing sks (like cooking, cleaning, or dults nat he or she is watching or pl	? (Mark <u>all</u> th paying bills)		omputer, p	laying
 Doing household chores or ta Caring for other children Working Talking with friends or other a 	are you typically doing sks (like cooking, cleaning, or dults nat he or she is watching or pl with my child	? (<i>Mark <u>all</u> tl</i> paying bills) aying		omputer, p	laying
video games, etc.), what Doing household chores or ta Caring for other children Working Talking with friends or other a Talking with my child about wi Watching or playing together Watching or playing separated Sleeping or napping	are you typically doing sks (like cooking, cleaning, or dults nat he or she is watching or pl with my child	? (<i>Mark <u>all</u> tl</i> paying bills) aying		omputer, p	laying
video games, etc.), what Doing household chores or ta Caring for other children Working Talking with friends or other a Talking with my child about wi Watching or playing together Watching or playing separated Sleeping or napping	are you typically doing sks (like cooking, cleaning, or dults nat he or she is watching or pl with my child	? (<i>Mark <u>all</u> tl</i> paying bills) aying		omputer, p	laying
video games, etc.), what Doing household chores or ta Caring for other children Working Talking with friends or other a Talking with my child about wi Watching or playing together Watching or playing separated Sleeping or napping	are you typically doing sks (like cooking, cleaning, or dults nat he or she is watching or pl with my child	? (<i>Mark <u>all</u> tl</i> paying bills) aying		omputer, p	laying

10. Thinking just about last week, did you use technology with your child in any of the following ways?

(Mark one for <u>each</u> row.)	Never	Never 1 to 2 times		Every day
a. Watched shows, movies, or videos with my child				
b. Played digital games or apps with my child				
 c. Helped setting up the technology or fixing technology problems for my child (for example, if the game "freezes" or the computer needs to be restarted) 				
 Asked questions about the show/game my child was watching/playing 				
e. Answered questions my child asked me about the show/game he or she was watching/playing				
f. Made connections between the shows/games my child was watching/playing and things we do in our daily life (for example, talked about how we made pancakes for breakfast, just like Curious George made pancakes on the show your child watched)				

11. Thinking just about last week, about how often did your child use technology (watched TV, used the computer, etc.) while doing another activity at the same time, like playing with toys, riding in a car/bus/train, or eating a meal? (*Mark only one.*)

Never

1 to 2 times

3 to 4 times

Every day

RTL Parent Survey 2015 English (post) - Yellow

Page 6 of 12



Beliefs about Technology for Learning

12. Please indicate whether you agree or disagree with

the following statements. (Mark one for <u>each</u> row.)	Strongly agree	Agree	Disagree	Strongly disagree
a. Technology should be part of young children's learning.				
b. Young children spend too much time with technology.				
c. Technology encourages young children's creativity.				
d. Technology distracts young children from learning.				
e. Technology provides young children with information that they might not get at home or school.				
f. Using technology helps young children learn skills they will need the future.				
g. Technology is helpful for teaching math skills to young children.				
h. Technology is helpful for teaching reading skills to young children.				

Г

13. How much has your child learned about each of the following areas from using technology? (For example, watching TV,

using a computer, etc.)? (Mark one for <u>each</u> row.)		Some	Only a little	Nothing	N/A
a. Math					
b. Science					
c. Reading or vocabulary					
d. Cooperation, manners, sharing or other social skills					
e. Memory, problem solving, or other cognitive skills					
f. Art or culture					
g. Healthy habits, like eating healthy foods or getting exercise					



RTL Parent Survey 2015 English (post) - Yellow

Page 7 of 12



••	If you monitor or limit your child's use of technology, please tell us HOW you do it.
	(Mark <u>all</u> that apply.)
	I schedule particular times of day my child can or cannot watch/play.
	I limit the content (particular shows/games) my child can watch/play.
	I limit which devices my child can use.
	 I set limits by observing my child's use of technology. I set limits based on my child's behavior (e.g., allow technology use for good behavior).
	I do not monitor or limit my child's use of technology.
	Other (please specify):
5.	If you monitor or limit your child's use of technology, please tell us WHY you do it. (Mark <u>all</u> that apply.)
	□ I'm concerned about inappropriate content.
	 I'm concerned about non-educational content. I want my child to have time for other activities, like outdoor play or time with friends.
	☐ I'm concerned about overuse of technology.
	☐ I'm concerned about technology "addiction" and my child depending on technology too much.
	 I'm concerned about my child getting enough physical activity. I do not monitor or limit my child's use of technology.
	Uther (please specify):
	Other (please specify):
6.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice at home or outside of school? (Mark all that apply.)
6.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice at home or outside of school? (Mark all that apply.) Counting (for example, counting out loud by saying "1, 2, 3" or counting objects such as cookies or the fingers on their hands)
6.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice at home or outside of school? (Mark all that apply.) Counting (for example, counting out loud by saying "1, 2, 3" or counting objects such as cookies or the fingers on their hands) Using ordinal numbers like first, second, third, fourth, fifth (for example, when walking up stairs or looking at the order of people standing in a line)
6.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice at home or outside of school? (Mark all that apply.) Counting (for example, counting out loud by saying "1, 2, 3" or counting objects such as cookies or the fingers on their hands) Using ordinal numbers like first, second, third, fourth, fifth (for example, when walking up stairs or looking
6.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice at home or outside of school? (Mark all that apply.) Counting (for example, counting out loud by saying "1, 2, 3" or counting objects such as cookies or the fingers on their hands) Using ordinal numbers like first, second, third, fourth, fifth (for example, when walking up stairs or looking at the order of people standing in a line)
6.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice at home or outside of school? (Mark <u>all</u> that apply.) Counting (for example, counting out loud by saying "1, 2, 3" or counting objects such as cookies or the fingers on their hands) Using ordinal numbers like first, second, third, fourth, fifth (for example, when walking up stairs or looking at the order of people standing in a line) Identifying written numbers (for example, the number "1" on the page of a book, or on a sign at the store)
6.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice at home or outside of school? (Mark all that apply.) Counting (for example, counting out loud by saying "1, 2, 3" or counting objects such as cookies or the fingers on their hands) Using ordinal numbers like first, second, third, fourth, fifth (for example, when walking up stairs or looking at the order of people standing in a line) Identifying written numbers (for example, the number "1" on the page of a book, or on a sign at the store) Recognizing or drawing shapes (for example, recognizing or drawing circles, triangles, or squares) Recognizing or creating patterns (for example, laying out snackscracker, grape, cracker, grape or colored blocks red, red, blue, red, red, blue in a pattern) Addition (for example, knowing how many crackers you have when you add one to the pile)
6.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice at home or outside of school? (Mark <u>all</u> that apply.) Counting (for example, counting out loud by saying "1, 2, 3" or counting objects such as cookies or the fingers on their hands) Using ordinal numbers like first, second, third, fourth, fifth (for example, when walking up stairs or looking at the order of people standing in a line) Identifying written numbers (for example, the number "1" on the page of a book, or on a sign at the store) Recognizing or drawing shapes (for example, laying out snackscracker, grape, cracker, grape or colored blocks red, red, blue, red, red, blue in a pattern) Addition (for example, knowing how many crackers you have when you add one to the pile) Subtraction (for example, knowing how many berries are left after eating some)
6.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice at home or outside of school? (Mark <u>all</u> that apply.) Counting (for example, counting out loud by saying "1, 2, 3" or counting objects such as cookies or the fingers on their hands) Using ordinal numbers like first, second, third, fourth, fifth (for example, when walking up stairs or looking at the order of people standing in a line) Identifying written numbers (for example, the number "1" on the page of a book, or on a sign at the store) Recognizing or drawing shapes (for example, laying out snackscracker, grape, cracker, grape or colored blocks red, red, blue, red, red, blue in a pattern) Addition (for example, knowing how many crackers you have when you add one to the pile) Subtraction (for example, knowing how many berries are left after eating some) Measurement (for example, measuring size with hands or rulers, measuring water with cups, or measuring ingredients for a recipe)
6.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice at home or outside of school? (Mark <u>all</u> that apply.) Counting (for example, counting out loud by saying "1, 2, 3" or counting objects such as cookies or the fingers on their hands) Using ordinal numbers like first, second, third, fourth, fifth (for example, when walking up stairs or looking at the order of people standing in a line) Identifying written numbers (for example, the number "1" on the page of a book, or on a sign at the store) Recognizing or drawing shapes (for example, laying out snackscracker, grape, cracker, grape or colored blocks red, red, blue, red, red, blue in a pattern) Addition (for example, knowing how many crackers you have when you add one to the pile) Subtraction (for example, measuring size with hands or rulers, measuring water with cups, or measuring ingredients for a recipe) Positional language, like above, below, near, far (for example, "Can you put your bear under the table?")
6.	Math Learning at Home Which of the following math skills, if any, do you help your child learn or practice at home or outside of school? (Mark <u>all</u> that apply.) Counting (for example, counting out loud by saying "1, 2, 3" or counting objects such as cookies or the fingers on their hands) Using ordinal numbers like first, second, third, fourth, fifth (for example, when walking up stairs or looking at the order of people standing in a line) Identifying written numbers (for example, the number "1" on the page of a book, or on a sign at the store) Recognizing or drawing shapes (for example, laying out snackscracker, grape, cracker, grape or colored blocks red, red, blue, red, red, blue in a pattern) Addition (for example, knowing how many crackers you have when you add one to the pile) Subtraction (for example, knowing how many berries are left after eating some) Measurement (for example, measuring size with hands or rulers, measuring water with cups, or measuring ingredients for a recipe)

17.	Please indicate whether you agree or disagree with				
	the following statements. (Mark one for <u>each</u> row.)	Strongly Agree	Agree	Disagree	Strongly disagree
	a. Young children (ages 3-5) learn math mainly at school, not at home.				
	b. I can help my child learn math and other skills like reading and writing.				
	c. I am confident in my ability to help my child learn and talk about math.				
	d. Young children (age 3-5) generally like math and are interested in it.				
	e. Math is too difficult for young children (ages 3-5) to understand.				
	f. I like helping my child learn about math.				
	g. Math can be taught any time throughout the day.				
	h. Part of my role as a parent is to teach math to my children.				

Approaches to Learning

18. Thinking just about last week, how often did your child...

(Mark one for <u>each</u> row.)		Once or twice	Three or four times	Five or more times
a. Complete a task or activity that took 10 minutes or longer (for example, completing a puzzle or putting away toys)?				
b. Calm him/herself down when frustrated?				
c. Ask for help when he or she was having trouble with solving a problem?				

19. Thinking just about last week,

(Mark one for <u>each</u> row.)		Never	Once or twice	Three or four times	Five or more times
"Ta	k your child to follow more than one direction (for example, ke off your coat, hang it on the hook, and pick out a game play")?				
b. Hel	p your child to solve a problem?				
c. Hel	p your child to think of a different way to solve a problem?				
	p your child explore "what if" scenarios? (for example, hat if we leave the ice sitting in the sun?"				
e. Hel	p your child to calm him/herself down when frustrated?				
(for	er encouragement on something your child was doing? example, "You worked really hard to find a way to put se puzzle pieces together."				
g. Hel	p your child to see mistakes as a natural part of learning?				

RTL Parent Survey 2015 English (post) - Yellow

Page 9 of 12

- 20. In the past two weeks, how often has your child watched these PBS KIDS shows? Don't 0 1-2 3-4 5-6 (Mark one for each row.) Know times times times times a. Super Why! b. PEG+CAT c. Sid the Science Kid П П
- 21. In the past two weeks, how often has your child played digital games based on these PBS KIDS shows? (Mark one for <u>each</u> row.)

PBS KIDS shows? (Mark one for <u>each</u> row.)		0 times	1-2 times	3-4 times	5-6 times	than 6 times	
a. Super Why!							
b. PEG+CAT							
c. Sid the Science Kid							

BACKGROUND INFORMATION

22. Does the child listed on this survey have an IEP (individualized education program) or a 504 Plan? (Mark only one.)

☐ Yes ☐ No

I don't know

23. What is your relationship to the child listed on this survey? (Mark only one.)

(//	ain	Unity	one.
	Mc	other	

	Moulei	
\square	Father	

Grandmother

Grandfather

____ ___ Guardian

Other (please specify):

Thank you very much for taking the time to complete this survey!

RTL Parent Survey 2015 English (post) - Yellow

Page 10 of 12



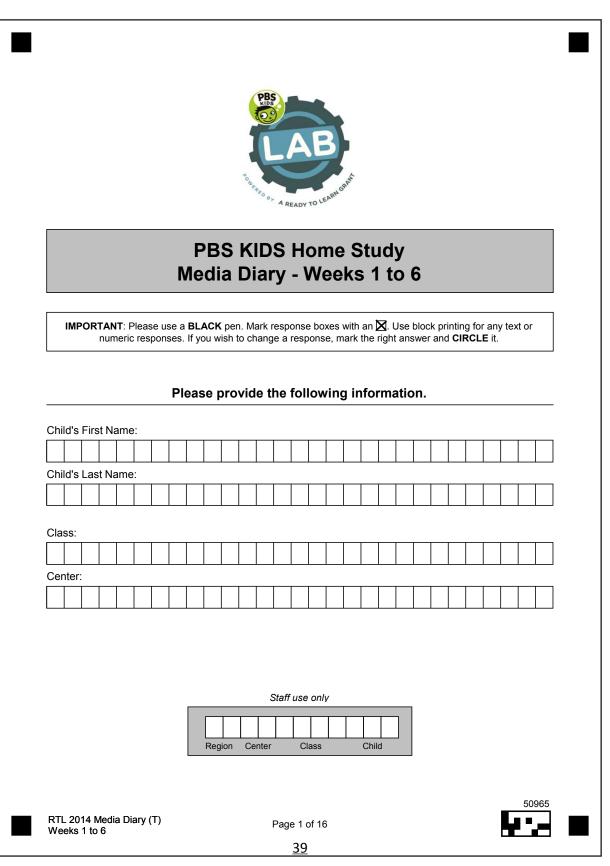
More

than 6

times

More

Appendix S. PBS KIDS Media Diary



WEEK 1
Your name: Today's date: (mon/day/yr) Your relationship to child:
Please tell us a little bit about the PEG+CAT videos and games your child watched and played TODAY.
1a Full Video: The Ring Problem
Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch (skip ahead to 1b)
Device: Chromebook Tablet Other ► Time of day: Morning Afternoon Evening
How did your child feel about the resource?
□ Fun/Interesting □ Boring □ Confusing □ Other ▶
1b Video Clip: Ordering by Size
Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch (skip ahead to 1c)
Device: Chromebook □ Tablet Other ▶ □ Other ▶ □ On his/her own □ With other kids (like friends or cousins)
Time of day: Morning Afternoon Evening Other
How did your child feel about the resource? Fun/Interesting Confusing Other
1c Full Video: The Wedding Problem Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch (skip ahead to 1d)
Device: Chromebook Tablet Other ▶ Time of day: Morning Afternoon Evening
How did your child feel about the resource?
□ Fun/Interesting □ Boring □ Confusing □ Other
1d Online Game: Peg's Pizza Place Number of minutes played: 1 to 15 16 to 30 More than 30 Did not play (skip ahead to question 2)
Device: Chromebook Tablet Other > On his/her own With other kids (like friends or cousins)
Time of day: Morning Afternoon Evening Other ▶
How did your child feel about the resource? □ Fun/Interesting □ Boring □ Confusing □ Other ►
RTL 2014 Media Diary (T) Page 2 of 16 Weeks 1 to 6 Page 2 of 16

	WEEK 1
This week's hom	e activity is PEG+CAT Honey Cake. Did your child complete the activity THIS WEEK?
	CAT games or videos did your child play or watch THIS WEEK? (Mark ALL that apply.)
Full Video: The	
Online Game:	Costume Box
Other (specify)	
Which family sup	bport materials did you read or use THIS WEEK? (Mark ALL that apply.)
PEG+CAT Exp	perience Guide
	the PEG+CAT Experience Guide (specify):
Family Suppor	t Video(s) (specify): s
	the family support materials in helping you and your child use media together?
	er any challenges THIS WEEK using the media and technology?
	ncounter any challenges. Yes
• <u> </u>	rhat challenges you experienced: (Mark ALL that apply.) technology devices (tablet or Chromebook, etc.)
	essing the videos and/or interactive games
	the videos and games into our family's schedule
	k of interest or engagement while using the videos or games
☐ Other ►	
_	
	r child follow the suggested order of videos, games, and activities in the PEG+CAT
	e? (Mark ONE only.)
	llowed the order. We sometimes followed the order. We did not followed the order.
Other than PEG+	CAT videos and games, did your child engage in any of these activities TODAY?
(Mark ALL that appl)	
Watched show	
Used apps or s	software programs other than games/videos (like a photo app or drawing program)
My child did no	ot engage in any non-PEG+CAT technology activities today
For what purpos	es did your child use technology TODAY? (Mark ALL that apply.)
	Entertainment Other
My child did no	t use technology today
	oing TODAY while your child used media and technology at home (watching TV, using th
	g video games, etc.) without an adult? (Mark ALL that apply.)
computer, playin	res or tasks (like cooking, cleaning or paying bills)
computer, playin	res or tasks (like cooking, cleaning or paying bills)
Computer, playin ☐ Household cho ☐ Talking with frie ☐ Other ▶	res or tasks (like cooking, cleaning or paying bills)
Computer, playin Household cho Talking with frie Other ▶	res or tasks (like cooking, cleaning or paying bills)
computer, playin ☐ Household cho ☐ Talking with frid ☐ Other	ores or tasks (like cooking, cleaning or paying bills)

WEEK 2
Your name: Today's date: (mon/day/yr) Your relationship to child:
Please tell us a little bit about the PEG+CAT videos and games your child watched and played TODAY.
1a Full Video: The Play Date Problem
Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch (skip ahead to 1b)
Device: Chromebook □ Tablet Other ▶
Time of day: Morning Afternoon Evening Other Control Other
How did your child feel about the resource? □ Fun/Interesting □ Boring □ Confusing □ Other ►
1b Full Video: The Beethoven Problem
Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch (skip ahead to 1c) Device: Chromebook Who did your child watch with? (Mark ALL that apply.)
□ Tablet □ Other ► □ On his/her own □ With other kids (like friends or cousins)
Time of day: Morning Afternoon Evening With brother(s) or sister(s) With parent/caregiver Other ▶
How did your child feel about the resource?
Confusing Other ►
1c Online Game: The Chicken Dance Number of minutes played: 1 to 15 16 to 30 More than 30 Did not play (skip ahead to question 2)
Number of minutes played: 1 to 15 16 to 30 More than 30 Did not play (skip ahead to question 2) Device: Chromebook Who did your child play with? (Mark ALL that apply.)
□ Tablet □ On his/her own □ With other kids (like friends or cousins) □ With brother(s) or sister(s) □ With parent/caregiver
Time of day: Morning Afternoon Evening Other ▶
How did your child feel about the resource?
□ Confusing □ Other ►
50965
RTL 2014 Media Diary (T) Page 4 of 16

WEEK 2
2 This week's home activity is <i>Home Collections</i> . Did your child complete the activity THIS WEEK?
What other <i>PEG+CAT</i> games or videos did your child play or watch THIS WEEK? (Mark ALL that apply.) Full Video: The Baby Problem Full Video: The Messy Room Problem
□ Online Game: Paint-a-Long □ Other (specify): ▶
Which family support materials did you read or use THIS WEEK? (Mark ALL that apply.) PEG+CAT Experience Guide
 □ Tip Sheets in the PEG+CAT Experience Guide (specify): ▶ □ Family Support Video(s) (specify): ▶ □ Text messages
5 How useful were the family support materials in helping you and your child use media together? Uvery useful Somewhat useful Not useful Did not use
Did you encounter any challenges THIS WEEK using the media and technology?
If yes, indicate what challenges you experienced: (Mark ALL that apply.) □ Using the technology devices (tablet or Chromebook, etc.) □ Using/Accessing the videos and/or interactive games □ Finding time to fit the videos and games into our family's schedule □ Child's lack of interest or engagement while using the videos or games □ Other
7 Did you and your child follow the suggested order of videos, games, and activities in the PEG+CAT Experience Guide? (Mark ONE only.) We always followed the order. We sometimes followed the order. We did not followed the order. I can't remember if we followed the order.
Other than <i>PEG+CAT</i> videos and games, did your child engage in any of these activities TODAY? (Mark ALL that apply.)
 Watched shows or videos Played digital games Read or looked at electronic books Used apps or software programs other than games/videos (like a photo app or drawing program) Other ►
My child did not engage in any non-PEG+CAT technology activities today
9 For what purposes did your child use technology TODAY? (Mark ALL that apply.) □ Learning □ Entertainment □ Other □ My child did not use technology today
What were you doing TODAY while your child used media and technology at home (watching TV, using the computer, playing video games, etc.) without an adult? (Mark ALL that apply.) Household chores or tasks (like cooking, cleaning or paying bills) Caring for other children Working Talking with friends or family Watching TV/videos or playing games/apps separately from my child (on another device) Other
☐ My child did not use media or technology without an adult today
RTL 2014 Media Diary (T) Page 5 of 16

WEEK 3
Your name: Today's date: (mon/day/yr) Your relationship to child:
Please tell us a little bit about the PEG+CAT videos and games your child watched and played TODAY.
1a Full Video: The Sparkling Sphere Problem
Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch (skip ahead to 1b)
Device: Chromebook Tablet Other ▶ Who did your child watch with? (Mark ALL that apply.) On his/her own With other kids (like friends or cousins) With brother(s) or sister(s) With parent/caregiver
Time of day: Morning Afternoon Evening How did your child feel about the resource? Other ►
□ Fun/Interesting □ Boring □ Confusing □ Other ●
1b Online Game: Magical Shape Hunt
Number of minutes played: 1 to 15 16 to 30 More than 30 Did not play (skip ahead to 1c)
Device: Chromebook □ Tablet Other ▶ □ Who did your child play with? (Mark ALL that apply.) □ On his/her own With other kids (like friends or cousins) □ With other kids (like friends or cousins)
Time of day: Morning Afternoon Evening With brother(s) or sister(s) With parent/caregiver Other ►
How did your child feel about the resource?
Confusing Other ►
Video Olim, Ordindero & Destangular Driano
Ic Video Clip: Cylinders & Rectangular Prisms Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch (skip ahead to 1d)
Device: Chromebook Tablet Other ▶ Time of day: Morning Afternoon Evening
How did your child feel about the resource? □ Fun/Interesting □ Boring □ Confusing □ Other ►
1d Full Video: The Golden Pyramid Problem
Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch (skip ahead to question 2) Device: Chromebook Who did your child watch with? (Mark ALL that apply.)
□ Tablet □ Other ► □ On his/her own □ With other kids (like friends or cousins)
Time of day: Morning Afternoon Evening With brother(s) or sister(s) With parent/caregiver Other ►
How did your child feel about the resource? □ Fun/Interesting □ Confusing □ Other ►
RTL 2014 Media Diary (T) Page 6 of 16

	WEEK 3
	ome activity is PEG+CAT Stick Puppets. Did your child complete the activity THIS WEEK?
	0
	G+CAT games or videos did your child play or watch THIS WEEK? (Mark ALL that apply.)
	The Parade Problem The Halloween Problem
=	ne: Costume Box
Other (speci	
Which family s	support materials did you read or use THIS WEEK? (Mark ALL that apply.)
PEG+CAT	Experience Guide
	in the PEG+CAT Experience Guide (specify):
_	port Video(s) (specify): ►
Text messa	
How useful we	ere the family support materials in helping you and your child notice and talk about math?
Did you encou	inter any challenges THIS WEEK using the media and technology?
No, I did not	t encounter any challenges.
	e what challenges you experienced: (Mark ALL that apply.)
	he technology devices (tablet or Chromebook, etc.)
	Accessing the videos and/or interactive games I time to fit the videos and games into our family's schedule
=	lack of interest or engagement while using the videos or games
Other	
Did you and yo	our child follow the suggested order of videos, games, and activities in the PEG+CAT
	Jide? (Mark ONE only.)
•	followed the order. 🗌 We sometimes followed the order. 🗌 We did not followed the order.
🗌 I can't rem	ember if we followed the order.
Other than PF	G+CAT videos and games, did your child engage in any of these activities TODAY?
(Mark ALL that a	
(Mark ALL that a) Watched sh	pply.)
(Mark ALL that a)	pply.)
(Mark ALL that a)	pply.) nows or videos
(Mark ALL that application of the second	pply.) nows or videos Played digital games Read or looked at electronic books or software programs other than games/videos (like a photo app or drawing program)
(Mark ALL that application of the second	pply.) nows or videos
(Mark ALL that ap	pply.) nows or videos Played digital games Read or looked at electronic books or software programs other than games/videos (like a photo app or drawing program) I not engage in any non-PEG+CAT technology activities today
(Mark ALL that ap	pply.) nows or videos Played digital games Read or looked at electronic books or software programs other than games/videos (like a photo app or drawing program)
(Mark ALL that ap	pply.) nows or videos Played digital games Read or looked at electronic books or software programs other than games/videos (like a photo app or drawing program) I not engage in any non-PEG+CAT technology activities today oses did your child use technology TODAY? (Mark ALL that apply.)
(Mark ALL that ap	pply.) nows or videos Played digital games Read or looked at electronic books or software programs other than games/videos (like a photo app or drawing program) I not engage in any non-PEG+CAT technology activities today oses did your child use technology TODAY? (Mark ALL that apply.) □ Entertainment Other I not use technology today
(Mark ALL that ay Watched sh Used apps of Other ► My child did For what purp Learning My child did What were you	pply.) nows or videos Played digital games Read or looked at electronic books or software programs other than games/videos (like a photo app or drawing program) I not engage in any non-PEG+CAT technology activities today oses did your child use technology TODAY? (Mark ALL that apply.) □ Entertainment Other I not use technology today □ doing TODAY while your child used media and technology at home (watching TV, using th
(Mark ALL that ay Watched sh Used apps of Other ► My child did For what purp Learning My child did What were you computer, play	pply.) nows or videos Played digital games Read or looked at electronic books or software programs other than games/videos (like a photo app or drawing program) I not engage in any non-PEG+CAT technology activities today oses did your child use technology TODAY? (Mark ALL that apply.) □ Entertainment Other I not use technology today
(Mark ALL that application of the second	pply.) nows or videos Played digital games Read or looked at electronic books or software programs other than games/videos (like a photo app or drawing program) Inot engage in any non-PEG+CAT technology activities today oses did your child use technology TODAY? (Mark ALL that apply.) Inot engage technology today I not use technology today Inot use technology today I not use technology today Inot use technology adult? (Mark ALL that apply.) I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today
(Mark ALL that application of the second	pply.) nows or videos Played digital games Read or looked at electronic books or software programs other than games/videos (like a photo app or drawing program) Inot engage in any non-PEG+CAT technology activities today oses did your child use technology TODAY? (Mark ALL that apply.) Inot engage technology today I not use technology today Inot use technology today I not use technology today Inot use technology adult? (Mark ALL that apply.) I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today
(Mark ALL that ap Watched sh Used apps of Other My child did For what purper Learning My child did What were you computer, play Talking with	pply.) nows or videos Played digital games Read or looked at electronic books or software programs other than games/videos (like a photo app or drawing program) Inot engage in any non-PEG+CAT technology activities today oses did your child use technology TODAY? (Mark ALL that apply.) Inot engage technology today I not use technology today Inot use technology today I not use technology today Inot use technology adult? (Mark ALL that apply.) I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today
(Mark ALL that and Watched shing) □ Used apps of Used ap	pply.) nows or videos Played digital games Read or looked at electronic books or software programs other than games/videos (like a photo app or drawing program) Inot engage in any non-PEG+CAT technology activities today oses did your child use technology TODAY? (Mark ALL that apply.) Inot engage technology today I not use technology today Inot use technology today I not use technology today Inot use technology adult? (Mark ALL that apply.) I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today I not use technology today Inot use technology today
(Mark ALL that and Watched shing) □ Used apps of Used ap	pply.) now or videos Played digital games Read or looked at electronic books or software programs other than games/videos (like a photo app or drawing program) I not engage in any non-PEG+CAT technology activities today oses did your child use technology TODAY? (Mark ALL that apply.) □ Entertainment Other □ not use technology today □ doing TODAY while your child used media and technology at home (watching TV, using the ying video games, etc.) without an adult? (Mark ALL that apply.) chores or tasks (like cooking, cleaning or paying bills) □ Caring for other children Working n friends or family Watching TV/videos or playing games/apps separately from my child (on another dev
(Mark ALL that and Watched shing) □ Used apps of Used ap	pply.) now or videos Played digital games Read or looked at electronic books or software programs other than games/videos (like a photo app or drawing program) I not engage in any non-PEG+CAT technology activities today oses did your child use technology TODAY? (Mark ALL that apply.) □ Entertainment Other □ not use technology today u doing TODAY while your child used media and technology at home (watching TV, using th ying video games, etc.) without an adult? (Mark ALL that apply.) chores or tasks (like cooking, cleaning or paying bills) □ Caring for other children Working of friends or family Watching TV/videos or playing games/apps separately from my child (on another dev I not use media or technology without an adult today 50965

WEEK 4
Your name: Today's date: (mon/day/yr) Your relationship to child:
Please tell us a little bit about the PEG+CAT videos and games your child watched and played TODAY.
1a Full Video: The Big Dog Problem
Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch (skip ahead to 1b)
Device: Chromebook Tablet Other ▶ Time of day: Morning Afternoon Evening
How did your child feel about the resource? □ Fun/Interesting □ Boring □ Confusing □ Other ►
1b Video Clip: Peg Measures Cat's Height
Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch (skip ahead to 1c)
Device: Chromebook □ Tablet Other ► Who did your child watch with? (Mark ALL that apply.) □ On his/her own With other kids (like friends or cousins) □ With brother(s) or sister(s) With parent/caregiver
Time of day: Morning Afternoon Evening □ Other ▶
How did your child feel about the resource? □ Fun/Interesting Boring □ Confusing Other ►
1c Full Video: The Buried Treasure Problem
Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch (skip ahead to 1d)
Device: Chromebook □ Tablet Other ▶ □ Time of day: Morning Afternoon Evening Under Network 0 (Mark ALL that apply.) □ On his/her own □ With other kids (like friends or cousins) □ With brother(s) or sister(s) □ Other ▶
How did your child feel about the resource? □ Fun/Interesting □ Boring □ Confusing □ Other ►
1d Online Game: Rock Art
Number of minutes played: 1 to 15 16 to 30 More than 30 Did not play (skip ahead to question 2)
Device: Chromebook Tablet Other ▶ Time of day: Morning Afternoon Evening
How did your child feel about the resource? □ Fun/Interesting Boring □ Confusing Other ▶
RTL 2014 Media Diary (T) Page 8 of 16

WEEK 4
2 This week's home activity is Super PEG+CAT Guy Activity Page. Did your child complete the activity THIS WEEK?
3 What other PEG+CAT games or videos did your child play or watch THIS WEEK? (Mark ALL that apply.) □ Full Video: The Ring Problem □ Full Video: The Wedding Problem □ Online Game: 321 Snack □ Other (specify):
4 Which family support materials did you read or use THIS WEEK? (Mark ALL that apply.) □ PEG+CAT Experience Guide □ Tip Sheets in the PEG+CAT Experience Guide (specify): ▶ □ Family Support Video(s) (specify): ▶ □ Text messages
 Did you encounter any challenges THIS WEEK using the media and technology? No, I did not encounter any challenges. Yes If yes, indicate what challenges you experienced: (Mark ALL that apply.) Using the technology devices (tablet or Chromebook, etc.) Using/Accessing the videos and/or interactive games Finding time to fit the videos and games into our family's schedule Child's lack of interest or engagement while using the videos or games Other ►
 Did you and your child follow the suggested order of videos, games, and activities in the PEG+CAT Experience Guide? (Mark ONE only.) We always followed the order. We sometimes followed the order. We did not followed the order. I can't remember if we followed the order.
7 Other than PEG+CAT videos and games, did your child engage in any of these activities TODAY? (Mark ALL that apply.) Watched shows or videos Played digital games Read or looked at electronic books Used apps or software programs other than games/videos (like a photo app or drawing program) Other
Image: My child did not engage in any non-PEG+CAT technology activities today 8 For what purposes did your child use technology TODAY? (Mark ALL that apply.) □ Learning □ Entertainment □ Other □ My child did not use technology today
9 What were you doing TODAY while your child used media and technology at home (watching TV, using the computer, playing video games, etc.) without an adult? (Mark ALL that apply.) □ Household chores or tasks (like cooking, cleaning or paying bills) □ Caring for other children □ Working □ Talking with friends or family □ Watching TV/videos or playing games/apps separately from my child (on another device) □ Other ▶
Image: Page 9 of 16 S0965 Image: Page 9 of 16 S0965

WEEK 5
Your name: Today's date: (mon/day/yr) Your relationship to child:
Please tell us a little bit about the PEG+CAT videos and games your child watched and played TODAY.
1a Full Video: The Tree Problem
Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch (skip ahead to 1b)
Device: Chromebook Tablet Other Who did your child watch with? (Mark ALL that apply.) On his/her own With other kids (like friends or cousins) With brother(s) or sister(s) With parent/caregiver
Time of day: Morning Afternoon Evening □ Other ►
How did your child feel about the resource? □ Fun/Interesting □ Boring □ Confusing □ Other ►
1b Video Clip: Ordering Spheres 1
Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch (skip ahead to 1c)
Device: Chromebook □ Tablet Other ▶ □ Other ▶ □ On his/her own □ With other kids (like friends or cousins)
Time of day: Morning Afternoon Evening
How did your child feel about the resource?
□ Fun/Interesting □ Boring □ Other ►
1c Full Video: Another Tree Problem
Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch (skip ahead to 1d)
Device: Chromebook Who did your child watch with? (Mark ALL that apply.)
□ Tablet □ Other ▶ □ On his/her own □ With other kids (like friends or cousins) □ With brother(s) or sister(s) □ With parent/caregiver
Time of day: Morning Afternoon Evening Other Image: Contract of the second
How did your child feel about the resource?
□ Confusing □ Other ►
1d Video Clip: The Long Line Problem
Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch (skip ahead to 1e)
Device: Chromebook □ Tablet Other ► □ With brother kids (like friends or cousins) □ With brother(c) or sister(c)
Time of day: Morning Afternoon Evening With brother(s) or sister(s) With parent/caregiver Other ►
How did your child feel about the resource?
□ Fun/Interesting □ Boring □ Confusing □ Other ►
RTL 2014 Media Diary (T) Page 10 of 16
Weeks 1 to 6

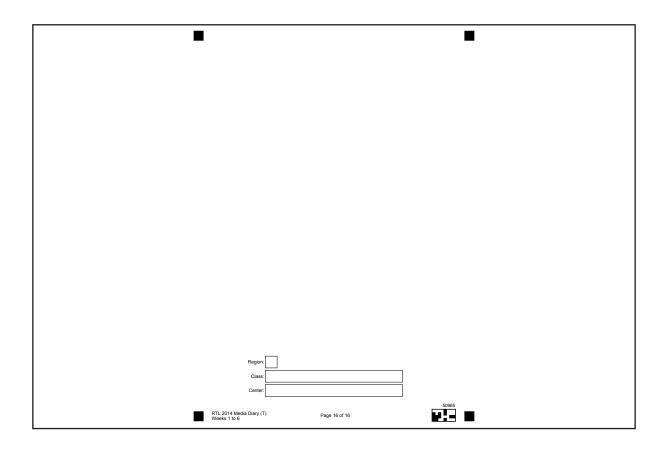
WEEK 5
1e Online Game: Hungry Pirates
Number of minutes played: 1 to 15 16 to 30 More than 30 Did not play (skip ahead to question 2)
Device: Chromebook □ Tablet Other ▶ □ Who did your child play with? (Mark ALL that apply.) □ On his/her own □ With other kids (like friends or cousins) □ With brother(s) or sister(s)
Time of day: Morning Afternoon Evening □ Other □
How did your child feel about the resource?
□ Fun/Interesting □ Boring □ Confusing □ Other ▶
2 What other PEG+CAT games or videos did your child play or watch THIS WEEK? (Mark ALL that apply.) Full Video: The Birthday Present Problem Full Video: The Election Problem Online Game: Chicken Dance Online Game: Magical Shape Hunt Other (specify):
3 Which family support materials did you read or use THIS WEEK? (Mark ALL that apply.)
☐ Text messages
How useful were the family support materials in helping you encourage your child's problem solving skills? Very useful Somewhat useful Not useful Did not use
 Did you encounter any challenges THIS WEEK using the media and technology? No, I did not encounter any challenges. Yes
If yes, indicate what challenges you experienced: (Mark ALL that apply.)
Using/Accessing the videos and/or interactive games Finding time to fit the videos and games into our family's schedule
 ☐ Child's lack of interest or engagement while using the videos or games ☐ Other ►
Week 5 continues on the next page.
RTL 2014 Media Diary (T) Page 11 of 16 Weeks 1 to 6 Page 11 of 16

WEEK 5	
 Did you and your child follow the suggested order of videos, games, and activities in the PEG+CAT Experience Guide? (Mark ONE only.) We always followed the order. We sometimes followed the order. We did not followed the order. Is we have a followed the order. 	
 I can't remember if we followed the order. Other than PEG+CAT videos and games, did your child engage in any of these activities TODAY? (Mark ALL that apply.) Watched shows or videos Played digital games Read or looked at electronic books Used apps or software programs other than games/videos (like a photo app or drawing program) Other (specify): 	
 My child did not engage in any non-PEG+CAT technology activities today For what purposes did your child use technology TODAY? (Mark ALL that apply.) Learning Entertainment Other (specify): 	
 My child did not use technology today What were you doing TODAY while your child used media and technology at home (watching TV, usin computer, playing video games, etc.) without an adult? (Mark ALL that apply.) Household chores or tasks (like cooking, cleaning or paying bills) Caring for other children Working Talking with friends or family Watching TV/videos or playing games/apps separately from my child (on another device) 	ng the
 Other (specify): My child did not use media or technology without an adult today 	
RTL 2014 Media Diary (T) Weeks 1 to 6 Page 12 of 16	

	WEEK 6
Your name: Today's	date: (mon/day/yr) Your relationship to child:
Please tell us a little bit about the PEG+CAT videos	and games your child watched and played TODAY.
1a Full Video: The Doohickey Problem	
Number of minutes watched: 1 to 15 16 to 30	More than 30 Did not watch (skip ahead to 1b)
Device: Chromebook □ Tablet Other ► Time of day: Morning Afternoon Evening	Who did your child watch with? (Mark ALL that apply.) ○ On his/her own ○ With other kids (like friends or cousins) ○ With brother(s) or sister(s) ○ With parent/caregiver ○ Other ▶
How did your child feel about the resource?	
□ Fun/Interesting □ Boring □ Confusing □ Other ►	
1b Online Game: Chicken Blast Off	
Number of minutes played: 1 to 15 16 to 30	☐ More than 30 ☐ Did not play (skip ahead to 1c)
Device: ☐ Chromebook ☐ Tablet ☐ Other ►	Who did your child play with? (Mark ALL that apply.)
Time of day: Morning Afternoon Evening	With brother(s) or sister(s) With parent/caregiver Other ▶
How did your child feel about the resource?	
□ Fun/Interesting □ Boring □ Confusing □ Other ▶	
1c Video Clip: The Baby Problem	
Number of minutes watched: 1 to 15 16 to 30 Device: Chromebook	More than 30 Did not watch (skip ahead to 1d) Who did your child watch with? (Mark ALL that apply.)
□ Tablet □ Other ►	On his/her own With other kids (like friends or cousins)
Time of day: Morning Afternoon Evening	With brother(s) or sister(s) With parent/caregiver Other ►
How did your child feel about the resource?	
□ Fun/Interesting □ Boring □ Confusing □ Other ►	
Week 6 continues on the next page.	
·····	
RTL 2014 Media Diary (T) Weeks 1 to 6	50965 Page 13 of 16

WEEK 6	
1d Video Clip: The Messy Room Problem 1	
Number of minutes watched: 1 to 15 16 to 30	More than 30 Did not watch (skip ahead to 1e)
Device: □ Chromebook □ Tablet □ Other ▶	Who did your child watch with? (Mark ALL that apply.)
Time of day: Morning Afternoon Evening	With brother(s) or sister(s) With parent/caregiver Other ►
How did your child feel about the resource?	
□ Fun/Interesting □ Boring □ Confusing □ Other ►	
1e Video Clip: The Messy Room Problem 2	
Number of minutes watched: 1 to 15 16 to 30	More than 30 Did not watch (skip ahead to 1f)
Device: Chromebook □ Tablet Other ►	Who did your child watch with? (Mark ALL that apply.)
	With brother(s) or sister(s) With parent/caregiver
Time of day: Morning Afternoon Evening	Other ►
How did your child feel about the resource?	
Confusing Other	
If Big Gig App: Patterns Number of minutes played: 1 to 15 16 to 30 M	pre than 30 🗌 Did not play (skip ahead to 1g)
	Who did your child play with? (Mark ALL that apply.)
□ Tablet □ Other ►	On his/her own With other kids (like friends or cousins)
Time of day: Morning Afternoon Evening	With brother(s) or sister(s) With parent/caregiver Other ►
How did your child feel about the resource?	
□ Fun/Interesting □ Boring □ Confusing □ Other ►	
1g Big Gig App: Magic Cylinder Song	
Number of minutes played: 1 to 15 16 to 30 M	ore than 30 Did not play (skip ahead to question 2)
	Who did your child play with? (Mark ALL that apply.)
Tablet Other ►	 On his/her own With other kids (like friends or cousins) With brother(s) or sister(s) With parent/caregiver
Time of day: Morning Afternoon Evening	□ Other ►
How did your child feel about the resource?	
Confusing Other	
RTL 2014 Media Diary (T)	50965
Weeks 1 to 6	14 of 16

	WEEK 6
	videos did your child play or watch THIS WEEK? (Mark ALL that apply.)
Full Video: The Three Bears Prob	blem
Full Video: The Big Gig Problem	
Big Gig App	
Other (specify):	
	did you read or use THIS WEEK? (Mark ALL that apply.)
PEG+CAT Experience Guide	
Tip Sheets in the PEG+CAT Exp	
 Family Support Video(s) (specify Text messages 	/): ▶
Did you encounter any challenge No, I did not encounter any challenge	es THIS WEEK using the media and technology?
	ou experienced: (Mark ALL that apply.)
Using the technology device	
Using/Accessing the videos	and/or interactive games
	and games into our family's schedule
Child's lack of interest or eng	gagement while using the videos or games
Other ►	
(Mark ALL that apply.) ☐ Watched shows or videos	the order. d games, did your child engage in any of these activities TODAY? Played digital games Read or looked at electronic books other than games/videos (like a photo app or drawing program)
My child did not engage in any no	on-PEG+CAT technology activities today
For what purposes did your chil	d use technology TODAY? (Mark ALL that apply.)
Learning Entertainment	Other
My child did not use technology t	loday
computer, playing video games, Household chores or tasks (like of	Watching TV/videos or playing games/apps separately from my child (on another dev
This concludes your Media Dia Thank you!	ary for Weeks 1 to 6.
RTL 2014 Media Diary (T)	Page 15 of 16



	THERE BY A READY TO LEARNING MAN																								
							N						+ ; - '					12	1						
I	Media Diary - Weeks 7 to 12 IMPORTANT: Please use a BLACK pen. Mark response boxes with an ⊠. Use block printing for any text or numeric responses. If you wish to change a response, mark the right answer and CIRCLE it.																								
	Please provide the following information.																								
Child	l's l	-irst	Na	me	e:	r—		—	_	T	 r	1	 	 	 T	 		T	-	 	 		 		1
Child			No	mo																					
			ING		;. 								Τ									Τ			
													 _ í			 			_	 			 1		
Class	s:																					Τ			
L Cent	er:																								
	Staff use only Region Center Class Child																								
RTL : Wee	RTL 2015 Media Diary (T) Weeks 7 to 12 Page 1 of 18 55																								

WEEK 7
Your name: Today's date: (mon/day/yr) Your relationship to child:
Please tell us a little bit about the PEG+CAT videos and games your child watched and played TODAY.
1a Full Video: The Dinosaur Problem
Number of minutes watched: ☐ 1 to 15 ☐ 16 to 30 ☐ More than 30 ☐ Did not watch ► (skip ahead to 1b)
Device: Chromebook □ Tablet Other ► □ With barthar(a) as sister(a) With barthar(a) as sister(a)
Time of day: Morning Afternoon Evening Other Other
How did your child feel about the resource?
Confusing Other ►
1b Online Game: Chicken Dance
Number of minutes played: ☐ 1 to 15 ☐ 16 to 30 ☐ More than 30 ☐ Did not play ► (skip ahead to 1c)
Device: Chromebook Tablet Other On his/her own With other kids (like friends or cousins)
Time of day: Morning Afternoon Evening
How did your child feel about the resource?
□ Fun/Interesting □ Boring □ Confusing □ Other ►
1c Full Video: The Penguin Problem Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch lock (skip ahead to question 2)
Device: Chromebook Tablet Other On his/her own With other kids (like friends or cousins)
Time of day:
How did your child feel about the resource?
Confusing Other
2 This week's home activity is Toy Hunt. Did your child complete the activity THIS WEEK? Yes No
 What other PEG+CAT games or videos did your child play or watch THIS WEEK? (Mark ALL that apply.) Full Video: The Arch Villain Problem Full Video: The Straight & Narrow Problem Online Game: Chicken Blast Off Other
RTL 2015 Media Diary (T) Page 2 of 18

i	WEEK 7
Whi	ch family support materials did you read or use THIS WEEK? (Mark ALL that apply.) PEG+CAT Experience Guide
	Tip Sheets in the PEG+CAT Experience Guide (specify):
	Family Support Video(s) (specify):
	Text messages
	you encounter any challenges THIS WEEK using the media and technology?
=	No, I did not encounter any challenges.
	Yes If yes, indicate what challenges you experienced: (Mark ALL that apply.)
	Using the technology devices (tablet or Chromebook, etc.) Using/Accessing the videos and/or interactive games
	Finding time to fit the videos and games into our family's schedule
	Child's lack of interest or engagement while using the videos or games
	Other (specify):
	We sometimes followed the order. We did not followed the order.
	I can't remember if we followed the order.
	er than PEG+CAT videos and games, did your child engage in any of these activities TODAY? k ALL that apply.)
	Watched shows or videos Played digital games Read or looked at electronic books
	Used apps or software programs other than games/videos (like a photo app or drawing program)
	Other ►
_	
	My child did not engage in any non-PEG+CAT technology activities today
	what purposes did your child use technology TODAY? (Mark ALL that apply.)
=	Learning Entertainment Other
	My child did not use technology today
Wha	at were you doing TODAY while your child used media and technology at home (watching TV, using t
	nputer, playing video games, etc.) without an adult? (Mark ALL that apply.)
	Household chores or tasks (like cooking, cleaning or paying bills)
_	
	Other
	Other ►
	Other ►
	Other My child did not use media or technology without an adult today

WEEK 8
Your name: Today's date: (mon/day/yr) Your relationship to child:
Please tell us a little bit about the PEG+CAT videos and games your child watched and played TODAY.
1a Full Video: The Big Gig Problem
Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch (<i>skip ahead to 1b</i>)
Device: Chromebook Tablet Other On his/her own With other kids (like friends or cousins)
Time of day: Morning Afternoon Evening Other Other
How did your child feel about the resource? Fun/Interesting Boring Confusing Other
1b Big Gig App: Cat Dance
Number of minutes played: ☐ 1 to 15 ☐ 16 to 30 ☐ More than 30 ☐ Did not play ► (skip ahead to 1c)
Device: Chromebook Tablet Other On his/her own With other kids (like friends or cousins)
Time of day: Morning Afternoon Evening
How did your child feel about the resource? □ Fun/Interesting Boring □ Confusing Other
Ic Video Clip: Ordinal Numbers Number of minutes watched: □ 1 to 15 □ 16 to 30 □ More than 30 □ Did not watch ▶ (skip ahead to 1d)
Device: Chromebook Who did your child watch with? (Mark ALL that apply.)
□ Tablet □ Other ▶ □ □ On his/her own □ With other kids (like friends or cousins) □ With brother(s) or sister(s) □ With parent/caregiver
Time of day: Morning Afternoon Evening Other Image: Control of the second
How did your child feel about the resource?
Confusing Other ►
1d Video Clip: The Beethoven Problem 1
Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch (skip ahead to 1e)
Device: Chromebook Tablet Other On his/her own With other kids (like friends or cousins) With brother(a) or pictor(a) With perceptions
Time of day: Morning Afternoon Evening With brother(s) or sister(s) With parent/caregiver Other Other
How did your child feel about the resource? □ Fun/Interesting Boring □ Confusing Other
7078
RTL 2015 Media Diary (T) Page 4 of 18 Weeks 7 to 12 Page 4 of 18

	WEEK 8						
1e Video Clip: The Straight & Narrow Problem							
Number of minutes watched: 1 to 15 16 to 30	☐ More than 30 ☐ Did not watch ► (skip ahead to 1f)						
Device: Chromebook Tablet Other Time of day: Morning Afternoon Evening	Who did your child watch with? (Mark ALL that apply.) ○ On his/her own ○ With other kids (like friends or cousins) ○ With brother(s) or sister(s) ○ With parent/caregiver ○ Other ▶						
How did your child feel about the resource? □ Fun/Interesting □ Boring □ Confusing □ Other							
1f Video Clip: The Golden Pyramid Problem							
Number of minutes watched: 1 to 15 16 to 30	☐ More than 30 ☐ Did not watch ▶ (skip ahead to 1g)						
Device: Chromebook Tablet Other Time of day: Morning Afternoon Evening	Who did your child watch with? (Mark ALL that apply.) ○ On his/her own ○ With other kids (like friends or cousins) ○ With brother(s) or sister(s) ○ With parent/caregiver ○ Other ►						
How did your child feel about the resource? □ Fun/Interesting □ Boring □ Confusing □ Other							
Ig Online Game: Star Swiper Number of minutes played: 1 to 15 16 to 30	More than 30						
Device: Chromebook Tablet Other ▶ Time of day: Morning Afternoon How did your child feel about the resource? Fun/Interesting Boring Confusing Other ▶	Who did your child play with? (Mark ALL that apply.) ○ On his/her own ○ With other kids (like friends or cousins) ○ With brother(s) or sister(s) ○ With parent/caregiver ○ Other ●						
 2 This week's home activity is <i>Chicken Coop</i>. Did your child complete the activity THIS WEEK? Yes No 3 What other <i>PEG+CAT</i> games or videos did your child play or watch THIS WEEK? (<i>Mark ALL that apply.</i>) Full Video: The Race Car Problem Full Video: The Birthday Cake Problem Online Game: Peg's Pizza Place Big Gig App Other (specify): 							
Week 8 continues on the next page. RTL 2015 Media Diary (T) Weeks 7 to 12	e 5 of 18						

WEEK 8	
Which family support materials did you read or use THIS WEEK? (Mark ALL that apply.)	
PEG+CAT Experience Guide	
Tip Sheets in the PEG+CAT Experience Guide (specify):	
Family Support Video(s) (specify):	
Text messages	
Did you encounter any challenges THIS WEEK using the media and technology?	
No, I did not encounter any challenges.	
Yes Fif yes, indicate what challenges you experienced: (Mark ALL that apply.)	
Using the technology devices (tablet or Chromebook, etc.)	
Using/Accessing the videos and/or interactive games	
Finding time to fit the videos and games into our family's schedule Child's lack of interest or engagement while using the videos or games	
Other (specify):	
We sometimes followed the order. We did not followed the order. Leaplt remember if we followed the order.	
L I can't remember if we followed the order.	
Other than PEG+CAT videos and games, did your child engage in any of these activities TODAY (Mark ALL that apply.)	?
Watched shows or videos Played digital games Read or looked at electronic books	
Used apps or software programs other than games/videos (like a photo app or drawing program)	
Other	
My child did not engage in any non-PEG+CAT technology activities today	
My child did not engage in any non-PEG+CAT technology activities today	
For what purposes did your child use technology TODAY? (Mark ALL that apply.)	
For what purposes did your child use technology TODAY? (Mark ALL that apply.)	
For what purposes did your child use technology TODAY? (Mark ALL that apply.)	
For what purposes did your child use technology TODAY? (Mark ALL that apply.) □ Learning □ Entertainment □ Other □ My child did not use technology today	/ using the
For what purposes did your child use technology TODAY? (Mark ALL that apply.)	/, using the
For what purposes did your child use technology TODAY? (Mark ALL that apply.) □ Learning □ Entertainment □ Other □ My child did not use technology today What were you doing TODAY while your child used media and technology at home (watching TV)	
For what purposes did your child use technology TODAY? (Mark ALL that apply.) □ Learning □ Entertainment □ Other □ My child did not use technology today What were you doing TODAY while your child used media and technology at home (watching TV computer, playing video games, etc.) without an adult? (Mark ALL that apply.)	ing
For what purposes did your child use technology TODAY? (Mark ALL that apply.) □ Learning □ Entertainment □ Other □ My child did not use technology today What were you doing TODAY while your child used media and technology at home (watching TV computer, playing video games, etc.) without an adult? (Mark ALL that apply.) □ Household chores or tasks (like cooking, cleaning or paying bills) □ Caring for other children	ing
For what purposes did your child use technology TODAY? (Mark ALL that apply.) □ Learning □ Entertainment □ Other □ My child did not use technology today What were you doing TODAY while your child used media and technology at home (watching TV computer, playing video games, etc.) without an adult? (Mark ALL that apply.) □ Household chores or tasks (like cooking, cleaning or paying bills) □ Caring for other children □ Worki □ Talking with friends or family □ Watching TV/videos or playing games/apps separately from my child (on	ing
For what purposes did your child use technology TODAY? (Mark ALL that apply.) □ Learning □ Entertainment □ Other □ My child did not use technology today What were you doing TODAY while your child used media and technology at home (watching TV computer, playing video games, etc.) without an adult? (Mark ALL that apply.) □ Household chores or tasks (like cooking, cleaning or paying bills) □ Caring for other children □ Worki □ Talking with friends or family □ Watching TV/videos or playing games/apps separately from my child (on	ing
For what purposes did your child use technology TODAY? (Mark ALL that apply.) □ Learning □ Entertainment □ Other □ My child did not use technology today What were you doing TODAY while your child used media and technology at home (watching TV computer, playing video games, etc.) without an adult? (Mark ALL that apply.) □ Household chores or tasks (like cooking, cleaning or paying bills) □ Caring for other children □ Worki □ Talking with friends or family □ Watching TV/videos or playing games/apps separately from my child (on	ing
For what purposes did your child use technology TODAY? (Mark ALL that apply.) □ Learning □ Entertainment □ Other □ My child did not use technology today What were you doing TODAY while your child used media and technology at home (watching TV computer, playing video games, etc.) without an adult? (Mark ALL that apply.) □ Household chores or tasks (like cooking, cleaning or paying bills) □ Caring for other children □ Worki □ Talking with friends or family □ Watching TV/videos or playing games/apps separately from my child (on □ Other □ □ My child did not use media or technology without an adult today	ing
For what purposes did your child use technology TODAY? (Mark ALL that apply.) □ Learning □ Entertainment □ Other □ My child did not use technology today What were you doing TODAY while your child used media and technology at home (watching TV computer, playing video games, etc.) without an adult? (Mark ALL that apply.) □ Household chores or tasks (like cooking, cleaning or paying bills) □ Caring for other children □ Worki □ Talking with friends or family □ Watching TV/videos or playing games/apps separately from my child (on □ Other □ □ My child did not use media or technology without an adult today	ing another devid

	WEEK 9
Your name: Today's	date: (mon/day/yr) Your relationship to child:
Diagon fall up a little bit about the DEC+CAT video	e and games your shild watched and played TODAY
	s and games your child watched and played TODAY.
1a Full Video: The Honey Problem	
Number of minutes watched: 1 to 15 16 to 30	
Device: Chromebook	Who did your child watch with? (Mark ALL that apply.) On his/her own With other kids (like friends or cousins)
Time of day: Morning Afternoon Evening	□ With brother(s) or sister(s) □ With parent/caregiver □ Other ►
How did your child feel about the resource?	
□ Fun/Interesting □ Boring □ Confusing □ Other	
1b Video Clip: The Penguin Problem	
Number of minutes watched: 1 to 15 16 to 30	D ☐ More than 30 ☐ Did not watch ► (skip ahead to 1c)
Device: Chromebook	Who did your child play with? (Mark ALL that apply.)
Tablet Other	On his/her own With other kids (like friends or cousins) With brother(s) or sister(s) With parent/caregiver
Time of day: Morning Afternoon Evening	☐ Other ►
How did your child feel about the resource?	
□ Confusing □ Other ►	
1c Full Video: The Cleopatra Problem	
Number of minutes watched: 1 to 15 16 to 30) ☐ More than 30 ☐ Did not watch ► (skip ahead to 1d)
Device: Chromebook	Who did your child watch with? (Mark ALL that apply.)
Tablet Other	On his/her own With other kids (like friends or cousins) With brother(s) or sister(s) With parent/caregiver
Time of day: Morning Afternoon Evening	□ Other ►
How did your child feel about the resource?	
□ Confusing □ Other ►	
1a Video Clip: Weight	
)
Number of minutes watched: 1 to 15 16 to 30 Device: Chromebook	Who did your child watch with? (Mark ALL that apply.)
□ Tablet □ Other ►	On his/her own With other kids (like friends or cousins)
Time of day: Morning Afternoon Evening	With brother(s) or sister(s) With parent/caregiver Other ►
How did your child feel about the resource?	
□ Fun/Interesting □ Boring □ Confusing □ Other ►	
	7078
RTL 2015 Media Diary (T)	Page 7 of 18
Weeks 7 to 12	

WEEK 9
Online Game: Happy Camel
Number of minutes played: 1 to 15 16 to 30 More than 30 Did not play ▶ (skip ahead to question 2)
Device: Chromebook Who did your child play with? (Mark ALL that apply.)
□ Tablet □ Other ► □ On his/her own □ With other kids (like friends or cousins) □ With brother(s) or sister(s) □ With parent/caregiver
Time of day: Morning Afternoon Evening Other ►
How did your child feel about the resource?
Fun/Interesting Boring
Confusing Other
2 This week's home activity is <i>How Heavy</i> ?. Did your child complete the activity THIS WEEK?
What other <i>PEG</i> + <i>CAT</i> games or videos did your child play or watch THIS WEEK? (<i>Mark ALL that apply.</i>)
Full Video: The Slop Problem
Online Game: Scrub-a-Dub
Online Game: Bubble Bath
Other (specify):
4 Which family support materials did you read or use THIS WEEK? (Mark ALL that apply.)
PEG+CAT Experience Guide
Tip Sheets in the PEG+CAT Experience Guide (specify):
Family Support Video(s) (specify):
Text messages
5 Did you encounter any challenges THIS WEEK using the media and technology?
No, I did not encounter any challenges.
If yes, indicate what challenges you experienced: (Mark ALL that apply.)
Using the technology devices (tablet or Chromebook, etc.) Using/Accessing the videos and/or interactive games
Finding time to fit the videos and games into our family's schedule
Child's lack of interest or engagement while using the videos or games
Other ►
5 Did you and your child follow the suggested order of videos, games, and activities in the PEG+CAT
Experience Guide? (Mark ONE only.)
Experience Guide? (Mark ONE only.) Use always followed the order.
Experience Guide? (Mark ONE only.) We always followed the order. We sometimes followed the order.
Experience Guide? (Mark ONE only.) We always followed the order. We sometimes followed the order. We did not followed the order.
Experience Guide? (Mark ONE only.) We always followed the order. We sometimes followed the order.
Experience Guide? (Mark ONE only.) We always followed the order. We sometimes followed the order. We did not followed the order.
 Experience Guide? (Mark ONE only.) We always followed the order. We sometimes followed the order. We did not followed the order. I can't remember if we followed the order.

_	WEEK 9
	ner than PEG+CAT videos and games, did your child engage in any of these activities TODAY? ark ALL that apply.)
Ľ] Watched shows or videos
Γ	Played digital games
Ľ	Read or looked at electronic books
	Used apps or software programs other than games/videos (like a photo app or drawing program)
] Other (specify):
C	My child did not engage in any non-PEG+CAT technology activities today
Fo	r what purposes did your child use technology TODAY? (Mark ALL that apply.)
L	
L	Other (specify):
Г	My child did not use technology today
L	
Wi the	nat were you doing TODAY while your child used media and technology at home (watching TV, usin e computer, playing video games, etc.) without an adult? (Mark ALL that apply.)
_	Household chores or tasks (like cooking, cleaning or paying bills)
Ē	Caring for other children
Γ	Working
Ľ] Talking with friends or family
Γ	Watching TV/videos or playing games/apps separately from my child (on another device)
L	Other (specify):
L] Other (specify):
Γ	
] Other (specify):] My child did not use media or technology without an adult today
Ľ	
Ľ	
[
[
C	
] My child did not use media or technology without an adult today

WEEK 10
Your name: Today's date: (mon/day/yr) Your relationship to child:
Please tell us a little bit about the PEG+CAT videos and games your child watched and played TODAY.
1a Full Video: The Blabberwocky Problem Number of minutes watched: □ 1 to 15 □ 16 to 30 □ More than 30 □ Did not watch ► (skip ahead to 1b)
Device: Chromebook Tablet Other ► Who did your child watch with? (Mark ALL that apply.) On his/her own With other kids (like friends or cousins)
Time of day: Morning Afternoon Evening With brother(s) or sister(s) With parent/caregiver Other Other
How did your child feel about the resource? □ Fun/Interesting □ Boring □ Confusing □ Other
1b Online Game: Chicken Dance
Number of minutes played: 1 to 15 16 to 30 More than 30 Did not play (skip ahead to 1c)
Device: Chromebook □ Tablet Other ► Who did your child play with? (Mark ALL that apply.) □ On his/her own With other kids (like friends or cousins) □ With brother(s) or sister(s) With parent/caregiver
Time of day: Morning Afternoon Evening Other Image: Comparison of the second sec
How did your child feel about the resource? Fun/Interesting Boring Confusing Other
1c Video Clip: The Beethoven Problem 2
Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch (<i>skip ahead to 1d</i>)
Device: Chromebook □ Tablet Other ► □ Who did your child watch with? (Mark ALL that apply.) □ On his/her own With other kids (like friends or cousins) □ With brother(s) or sister(s) □ With parent/caregiver
Time of day: Morning Afternoon Evening Other ●
How did your child feel about the resource?
□ Confusing □ Other ►
1d Video Clip: The Birthday Cake Problem
Number of minutes watched: ☐ 1 to 15 ☐ 16 to 30 ☐ More than 30 ☐ Did not watch ► (skip ahead to 1e)
Device: Chromebook Tablet Other Other Other Who did your child watched with? (Mark ALL that apply.) On his/her own With other kids (like friends or cousins) With brother(s) or sister(s) With parent/caregiver
Time of day: Morning Afternoon Evening Other Image: Constant of the state of
How did your child feel about the resource? □ Fun/Interesting □ Boring □ Confusing □ Other
RTL 2015 Media Diary (T) Page 10 of 18

	WEEK 10
e Video Clip: The Dinosaur Problem	
Number of minutes watched: 1 to 15 16 to	30 \square More than 30 \square Did not watch \blacktriangleright (skip ahead to question 2)
Device: Chromebook	Who did your child watched with? (Mark ALL that apply.)
	☐ With brother(s) or sister(s) ☐ With parent/caregiver
Time of day: Morning Afternoon Evening	Other ►
How did your child feel about the resource?	
Fun/Interesting Boring	
Confusing Other	
There are two home activities this week. Did	your shild complete them THIS WEEK2
There are two home activities this week. Did	
PEG+CAT Pirates Great Banana Fruit Salad	
Shapely Treats	
	our child play or watch THIS WEEK? (Mark ALL that apply.)
Full Video: Yet Another Tree Problem	
Full Video: The Romeo & Juliet Problem	costion Words
☐ PBS KIDS Lab Activity: Up, Down, All Around L Other ►	
Which family support materials did you read	or use THIS WEEK? (Mark ALL that early)
PEG+CAT Experience Guide	
Tip Sheets in the PEG+CAT Experience Guide	(Specify.) 🕨
☐ Family Support Video(s) <i>(Specify.)</i> ►	
Text messages	
Did you encounter any challenges THIS WEE	K using the media and technology?
No, I did not encounter any challenges.	
If yes, indicate what challenges you experience	ed: (Mark ALL that apply.)
Using the technology devices (tablet or Ch	romebook, etc.) Using/Accessing the videos and/or interactive game
Finding time to fit the videos and games in	-
Child's lack of interest or engagement while	e using the videos or games
_ Other ►	
Did you and your child follow the suggester	d order of videos, games, and activities in the PEG+CAT
Experience Guide? (Mark ONE only.)	
We always followed the order.	
We sometimes followed the order.	
We did not followed the order.	
I can't remember if we followed the order.	
Week 10 continues on the next page.	
	7078
RTL 2015 Media Diary (T)	Page 11 of 18
Weeks 7 to 12	

	WEEK 10
7	Other than <i>PEG+CAT</i> videos and games, did your child engage in any of these activities TODAY?
	(Mark ALL that apply.)
	Watched shows or videos
	Played digital games
	Read or looked at electronic books
	Used apps or software programs other than games/videos (like a photo app or drawing program)
	Other (specify):
	My child did not engage in any non-PEG+CAT technology activities today
8	For what purposes did your child use technology TODAY? (Mark ALL that apply.)
	Other (specify):
	My child did not use technology today
	What were you doing TODAY while your child used media and technology at home (watching TV, using the computer, playing video games, etc.) without an adult? (Mark ALL that apply.)
	Household chores or tasks (like cooking, cleaning or paying bills)
	Caring for other children
	Working
	Talking with friends or family
	Watching TV/videos or playing games/apps separately from my child (on another device)
	Other (specify):
	My child did not use media or technology without an adult today
	7078
	RTL 2015 Media Diary (T) Page 12 of 18
	Weeks 7 to 12

	WEEK 11
Your name: Today's da	nte: (mon/day/yr) Your relationship to child:
Please tell us a little bit about the PEG+CAT videos a	and games your child watched and played TODAY.
1a Full Video: The Giant Problem	
Number of minutes watched: 1 to 15 16 to 30	☐ More than 30 ☐ Did not watch ► (skip ahead to 1b)
Device: Chromebook	Who did your child watch with? (Mark ALL that apply.) On his/her own With other kids (like friends or cousins) With the there(a) exception
Time of day: Morning Afternoon Evening	With brother(s) or sister(s) With parent/caregiver Other ►
How did your child feel about the resource? ☐ Fun/Interesting ☐ Boring ☐ Confusing Other ►	
1b Video Clip: The Ring Problem 1	
Number of minutes watched: 1 to 15 16 to 30	☐ More than 30 ☐ Did not watch ► (skip ahead to 1c)
Device: Chromebook	Who did your child watch with? (Mark ALL that apply.) On his/her own With other kids (like friends or cousins) With the the real of
Time of day: Morning Afternoon Evening	□ With brother(s) or sister(s) □ With parent/caregiver □ Other ►
How did your child feel about the resource? □ Fun/Interesting □ Boring □ Confusing □ Other	
1c Video Clip: The Ring Problem 2	☐ More than 30 ☐ Did not watch ► (skip ahead to 1d)
Number of minutes watched: 1 to 15 16 to 30 Device: Chromebook	More than 30 □ Did not watch ▶ (skip ahead to 1d) Who did your child watch with? (Mark ALL that apply.)
Tablet Other	On his/her own With other kids (like friends or cousins)
Time of day: Morning Afternoon Evening	□ With brother(s) or sister(s) □ With parent/caregiver □ Other ▶
How did your child feel about the resource?	
□ Fun/Interesting □ Boring □ Confusing □ Other	
1d Video Clip: The Wedding Problem 1	
Number of minutes watched: 1 to 15 16 to 30	☐ More than 30 ☐ Did not watch ► (skip ahead to 1e)
Device: Chromebook	Who did your child watch with? (Mark ALL that apply.) On his/her own With other kids (like friends or cousins) With the there(a) With other kids (like friends or cousins)
Time of day: Morning Afternoon Evening	□ With brother(s) or sister(s) □ With parent/caregiver □ Other ►
How did your child feel about the resource? □ Fun/Interesting □ Boring □ Confusing □ Other	
RTL 2015 Media Diary (T) Page Weeks 7 to 12	7078 ge 13 of 18

WEEK 11
1e Video Clip: The Wedding Problem 2
Number of minutes watched: ☐ 1 to 15 ☐ 16 to 30 ☐ More than 30 ☐ Did not watch ► (skip ahead to 1f)
Device: Chromebook Tablet Other ▶ Time of day: Morning Afternoon Evening How did your child feel about the resource? Other ▶ Fun/Interesting Boring Confusing Other ▶
1f Online Game: 321 Snack
Number of minutes played: ☐ 1 to 15 ☐ 16 to 30 ☐ More than 30 ☐ Did not play ► (skip ahead to 1g)
Device: Chromebook Tablet Other Time of day: Morning Afternoon Evening How did your child feel about the resource? Other
Confusing Other ►
1g Online Game: Paint-a-Long Number of minutes played: □ 1 to 15 □ 16 to 30 □ More than 30 □ Did not play ▶ (skip ahead to question 2)
Device: Chromebook □ Tablet Other ▶ Time of day: Morning □ Afternoon Evening How did your child feel about the resource? Other ▶ □ Fun/Interesting Boring □ Confusing Other ▶
 This week's home activity is <i>The PEG+CAT Doodle It Yourself Flipbook</i>. Did your child complete the activity THIS WEEK? Yes No What other <i>PEG+CAT</i> games or videos did your child play or watch THIS WEEK? (Mark ALL that apply.) Full Video: The Space Creature Problem
 Full Video: The Doohickey Problem Online Game: Star Swiper Other (specify):
RTL 2015 Media Diary (T) Page 14 of 18 7078 Weeks 7 to 12 Page 14 of 18 Page 14 of 18

	WEEK 11
Which	family support materials did you read or use THIS WEEK? (Mark ALL that apply.)
=	EG+CAT Experience Guide
	p Sheets in the PEG+CAT Experience Guide (specify):
E F	amily Support Video(s) (specify):
Пт	ext messages
	u encounter any challenges THIS WEEK using the media and technology? I, I did not encounter any challenges.
_	s If yes, indicate what challenges you experienced: (Mark ALL that apply.)
	Using the technology devices (tablet or Chromebook, etc.)
	Using/Accessing the videos and/or interactive games
	Finding time to fit the videos and games into our family's schedule
	Child's lack of interest or engagement while using the videos or games
	Other (specify):
	u and your child follow the suggested order of videos, games, and activities in the PEG+CAT ence Guide? (Mark ONE only.)
÷	e always followed the order.
Πw	e sometimes followed the order.
<u> </u>	e did not followed the order.
	can't remember if we followed the order.
	than PEG+CAT videos and games, did your child engage in any of these activities TODAY?
(IVIAIK F	
W	atched shows or videos
□ W □ Us	
□ W □ Us	atched shows or videos
□ ₩ □ ∪€ □ 01	atched shows or videos
	atched shows or videos □ Played digital games □ Read or looked at electronic books ed apps or software programs other than games/videos (like a photo app or drawing program) her ▶ v child did not engage in any non-PEG+CAT technology activities today hat purposes did your child use technology TODAY? (Mark ALL that apply.)
₩ □ Us □ Of □ M ■ M	atched shows or videos □ Played digital games □ Read or looked at electronic books ed apps or software programs other than games/videos (like a photo app or drawing program) her ▶ or child did not engage in any non-PEG+CAT technology activities today
W Us Of M For wl Le M	atched shows or videos Played digital games Read or looked at electronic books ed apps or software programs other than games/videos (like a photo app or drawing program) her
W Us Orl M For wi Le M What v	atched shows or videos Played digital games Read or looked at electronic books ed apps or software programs other than games/videos (like a photo app or drawing program) her
W Us Orl M For wi Le M What v compo	atched shows or videos Played digital games Read or looked at electronic books ed apps or software programs other than games/videos (like a photo app or drawing program) her
	atched shows or videos □ Played digital games □ Read or looked at electronic books ed apps or software programs other than games/videos (like a photo app or drawing program) her ▶ archild did not engage in any non-PEG+CAT technology activities today hat purposes did your child use technology TODAY? (Mark ALL that apply.) arrning □ Entertainment □ Other brow □ Arrning □ Arrning brow □ Arrning <t< td=""></t<>
	atched shows or videos □ Played digital games □ Read or looked at electronic books ed apps or software programs other than games/videos (like a photo app or drawing program) her ▶ archild did not engage in any non-PEG+CAT technology activities today hat purposes did your child use technology TODAY? (Mark ALL that apply.) arning □ Entertainment □ Other archild did not use technology today ▶ vere you doing TODAY while your child used media and technology at home (watching TV, using ther, playing video games, etc.) without an adult? (Mark ALL that apply.) usehold chores or tasks (like cooking, cleaning or paying bills) □ Caring for other children □ Working
W W W W W W W W W W W W W W W W W W W Ta O	atched shows or videos ☐ Played digital games ☐ Read or looked at electronic books ed apps or software programs other than games/videos (like a photo app or drawing program) her
W W W W W W W W W W W W W W W W W W W Ta O	Atched shows or videos Played digital games Read or looked at electronic books ed apps or software programs other than games/videos (like a photo app or drawing program) her child did not engage in any non-PEG+CAT technology activities today that purposes did your child use technology TODAY? (<i>Mark ALL that apply.</i>) arning Entertainment Other child did not use technology today were you doing TODAY while your child used media and technology at home (watching TV, using ther, playing video games, etc.) without an adult? (<i>Mark ALL that apply.</i>) susehold chores or tasks (like cooking, cleaning or paying bills) Caring for other children Working liking with friends or family Watching TV/videos or playing games/apps separately from my child (on another children Mark and the child of the separately from my child (on another children Mark another children Here and the children Here
W W W W W W W W W W W W W W W W W W W Ta O	atched shows or videos □ Played digital games □ Read or looked at electronic books ed apps or software programs other than games/videos (like a photo app or drawing program) her ▶
W W W W W W W W W W W W W W W W T T C O M	atched shows or videos ☐ Played digital games ☐ Read or looked at electronic books ed apps or software programs other than games/videos (like a photo app or drawing program) her

WEEK 12
Video Clip: The Play Date Problem 2
Number of minutes watched: ☐ 1 to 15 ☐ 16 to 30 ☐ More than 30 ☐ Did not watch ► (skip ahead to 1f)
Device: Chromebook Tablet Other Time of day: Morning Afternoon Evening
How did your child feel about the resource? Other Fun/Interesting Boring Confusing Other
1 Online Game: Scrub-a-Dub
Number of minutes played: ☐ 1 to 15 ☐ 16 to 30 ☐ More than 30 ☐ Did not play ► (skip ahead to question 2)
Device: Chromebook Tablet Other Time of day: Morning Afternoon Evening
How did your child feel about the resource? Fun/Interesting Boring Confusing Other
 Yes No What other PEG+CAT games or videos did your child play or watch THIS WEEK? (Mark ALL that apply.) Full Video: The Pirate Problem Full Video: The Buried Treasure Problem Online Game: Hungry Pirates Other (specify):
Which family support materials did you read or use THIS WEEK? (Mark ALL that apply.) PEG+CAT Experience Guide Tip Sheets in the PEG+CAT Experience Guide (specify):
Family Support Video(s) (specify):
Text messages
Week 12 continues on the next page.
RTL 2015 Media Diary (T) Page 17 of 18 Weeks 7 to 12 Page 17 of 18

WEEK 12
5 Did you encounter any challenges THIS WEEK using the media and technology?
□ No, I did not encounter any challenges. □ Yes
If yes, indicate what challenges you experienced: (Mark ALL that apply.)
Using the technology devices (tablet or Chromebook, etc.) Using/Accessing the videos and/or interactive games
Finding time to fit the videos and games into our family's schedule Child's lack of interest or engagement while using the videos or games
6 Did you and your child follow the suggested order of videos, games, and activities in the PEG+CAT Experience Guide? (Mark ONE only.)
We always followed the order.
We sometimes followed the order.
We did not followed the order.
☐ I can't remember if we followed the orderr.
7 Other than PEG+CAT videos and games, did your child engage in any of these activities TODAY? (Mark ALL that apply.)
🗌 Watched shows or videos 🔄 Played digital games 🔄 Read or looked at electronic books
Used apps or software programs other than games/videos (like a photo app or drawing program)
□ Other ►
☐ My child did not engage in any non-PEG+CAT technology activities today
For what purposes did your child use technology TODAY? (Mark ALL that apply.) Learning Entertainment Other My child did not use technology today Image: Comparison of the second se
9 What were you doing TODAY while your child used media and technology at home (watching TV, using the computer, playing video games, etc.) without an adult? (Mark ALL that apply.) □ Household chores or tasks (like cooking, cleaning or paying bills) □ Caring for other children □ Working □ Talking with friends or family □ Watching TV/videos or playing games/apps separately from my child (on another device) □ Other ►
My child did not use media or technology without an adult today
This concludes your Media Diary for Weeks 7 to 12. Thank you!
Region:
Class:
Center:
7078
RTL 2015 Media Diary (T) Page 18 of 18

Appendix T. Business as Usual Media Diary

	OREGEO OF A READY TO LEANNON T	
	PBS KIDS Home Study Media Diary - Weeks 1 to 6	
IMPORTANT: Please use numeric response:	a BLACK pen. Mark response boxes with an X. Use block printing for any text cs. If you wish to change a response, mark the right answer and CIRCLE it.	r
P	lease provide the following information.	
Child's First Name:		
Child's Last Name:		
Class:		
Center:		
	Region Center Class Child	5014

WEEK 1		
Your name:	Today's date: (mon/day/y	(r) Your relationship to child:
Television Captop or desktop compute Tablet (such as an iPad, Gi Video game system (such as	nology devices did your child use er alaxy Tab, Nexus 7, Microsoft Surface, c as an Xbox, PlayStation, or Wii) you can also use to send email, watch y	or Kindle Fire)
Please tell us a little bit about t	he media that your child watched	or played TODAY.
2a Television show(s) Number of minutes watched:	1 to 15 16 to 30 More 1	han 30 🗌 Did not watch (skip ahead to 2b)
Name of program(s) watched:		
Who did your child watch with? (// On his/her own With other With brother(s) or sister(s)	fark ALL that apply.) kids (like friends or cousins) other:	How did your child feel about the resource?
2b Video(s) Number of minutes watched:	1 to 15 16 to 30 More t	han 30 🗌 Did not watch (skip ahead to 2c)
With brother(s) or sister(s)	<i>flark ALL that apply.)</i> kids (like friends or cousins)	How did your child feel about the resource?
2c Computer game(s) Number of minutes played:	□ 1 to 15 □ 16 to 30 □ More tha	an 30 🗌 Did not play (skip ahead to 2d)
Name of game(s) played:		
Who did your child watch with? (// On his/her own With other With brother(s) or sister(s)	Mark ALL that apply.) kids (like friends or cousins)	How did your child feel about the resource?
2d Other media resource(s) Number of minutes used:] 1 to 15 🗌 16 to 30 📄 More thar	n 30 🗌 Did not use (skip ahead to question 3)
Name of resource(s) used:		
With brother(s) or sister(s)	? (Mark ALL that apply.) kids (like friends or cousins)	How did your child feel about the resource? Fun/Interesting Boring Confusing Other:
RTL 2014 Media Diary (C) Weeks 1 to 6	Page 2 of 14	

	use technology TODAY? (Mark ALL that apply.)
Other (please specify):	
My child did not use technology to	day
Did you (or another adult caregive (Mark ALL that apply.)	er) use technology with your child in any of the following ways TOD
Watched shows, movies, or videos	s with my child
Played digital games or apps with	-
	x technology problems for my child (for example, if the game "froze" or
the computer needed to be restart	ted)
Asked questions about the show/g	ame my child was watching/playing
Answered questions my child aske	ed me about the show/game he or she was watching/playing
Made connections between the sh	ows/games my child was watching/playing and things we do in our daily life
• • •	made pancakes for breakfast, just like Curious George made pancakes).
If so, what connection did you mak	e? (please specify):
Other (please specify):	
My child did not use technology to	day with me or another adult caregiver
What were you doing TODAY whi	day with me or another adult caregiver ile your child used media and technology at home (watching TV, usinetc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY whi	le your child used media and technology at home (watching TV, usinetc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY whi computer, playing video games, e	le your child used media and technology at home (watching TV, usinetc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY whi computer, playing video games, e	le your child used media and technology at home (watching TV, usinetc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY whi computer, playing video games, e Household chores or tasks (like co Caring for other children	le your child used media and technology at home (watching TV, usinetc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY whi computer, playing video games, e Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing gam	le your child used media and technology at home (watching TV, usinetc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY whi computer, playing video games, e Household chores or tasks (like co Caring for other children Working Talking with friends or family	le your child used media and technology at home (watching TV, usinetc.) without an adult? (Mark ALL that apply.) boking, cleaning or paying bills)
What were you doing TODAY whi computer, playing video games, e Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing gam	le your child used media and technology at home (watching TV, usinetc.) without an adult? (Mark ALL that apply.) boking, cleaning or paying bills)
What were you doing TODAY whi computer, playing video games, e Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing gar Other (please specify):	ile your child used media and technology at home (watching TV, usine tc.) without an adult? (Mark ALL that apply.) boking, cleaning or paying bills) mes/apps separately from my child (on another device)
What were you doing TODAY whi computer, playing video games, e Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing gam	ile your child used media and technology at home (watching TV, usine tc.) without an adult? (Mark ALL that apply.) boking, cleaning or paying bills) mes/apps separately from my child (on another device)
What were you doing TODAY whi computer, playing video games, e Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing gar Other (please specify):	ile your child used media and technology at home (watching TV, usine tc.) without an adult? (Mark ALL that apply.) boking, cleaning or paying bills) mes/apps separately from my child (on another device)
What were you doing TODAY whi computer, playing video games, e Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing gar Other (please specify):	ile your child used media and technology at home (watching TV, usine tc.) without an adult? (Mark ALL that apply.) boking, cleaning or paying bills) mes/apps separately from my child (on another device)
What were you doing TODAY whi computer, playing video games, e Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing gar Other (please specify):	ile your child used media and technology at home (watching TV, usine tc.) without an adult? (Mark ALL that apply.) boking, cleaning or paying bills) mes/apps separately from my child (on another device)
What were you doing TODAY whi computer, playing video games, e Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing gar Other (please specify):	ile your child used media and technology at home (watching TV, usine tc.) without an adult? (Mark ALL that apply.) boking, cleaning or paying bills) mes/apps separately from my child (on another device)
What were you doing TODAY whi computer, playing video games, e Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing gar Other (please specify):	ile your child used media and technology at home (watching TV, usine tc.) without an adult? (Mark ALL that apply.) boking, cleaning or paying bills) mes/apps separately from my child (on another device)
What were you doing TODAY whi computer, playing video games, e Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing gar Other (please specify):	ile your child used media and technology at home (watching TV, usine tc.) without an adult? (Mark ALL that apply.) boking, cleaning or paying bills) mes/apps separately from my child (on another device)
What were you doing TODAY whi computer, playing video games, e Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing gar Other (please specify):	ile your child used media and technology at home (watching TV, usine tc.) without an adult? (Mark ALL that apply.) boking, cleaning or paying bills) mes/apps separately from my child (on another device)
What were you doing TODAY whi computer, playing video games, e Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing gar Other (please specify):	ile your child used media and technology at home (watching TV, usine tc.) without an adult? (Mark ALL that apply.) boking, cleaning or paying bills) mes/apps separately from my child (on another device)
What were you doing TODAY whi computer, playing video games, e Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing gar Other (please specify):	ile your child used media and technology at home (watching TV, usine tc.) without an adult? (Mark ALL that apply.) boking, cleaning or paying bills) mes/apps separately from my child (on another device)

WEEK 2		
Your name:	Today's date: (mon/day/yr)	Your relationship to child:
Video game system (such as ar	Tab, Nexus 7, Microsoft Surface, or	Kindle Fire)
Please tell us a little bit about the n	nedia that your child watched o	r played TODAY.
2a Television show(s)		
Number of minutes watched:	1 to 15 16 to 30 More th	an 30 Did not watch (skip ahead to 2b)
Name of program(s) watched:		
Who did your child watch with? (Mark // On his/her own With other kids With brother(s) or sister(s) With parent/caregiver Other	(like friends or cousins)	How did your child feel about the resource? Fun/Interesting Boring Confusing Other:
2b Video(s) Number of minutes watched:	1 to 15 🗌 16 to 30 🗌 More th	an 30 Did not watch (skip ahead to 2c)
Name of video(s) watched: Who did your child watch with? (Mark A On his/her own With other kids With brother(s) or sister(s) With parent/caregiver Other	(like friends or cousins)	How did your child feel about the resource?
2c Computer game(s) Number of minutes played: 1	to 15 🗌 16 to 30 🗌 More than	30 Did not play (skip ahead to 2d)
Name of game(s) played:		
Who did your child watch with? (Mark // On his/her own With other kids With brother(s) or sister(s) With parent/caregiver Other	(like friends or cousins)	How did your child feel about the resource? Fun/Interesting Boring Confusing Other:
2d Other media resource(s) Number of minutes used: 1 t	o 15 🗌 16 to 30 🗌 More than 5	30 Did not use (skip ahead to question 3)
Name of resource(s) used:		
Who did your child use them with? (Ma	(like friends or cousins)	How did your child feel about the resource? Fun/Interesting Boring Confusing Other:
RTL 2014 Media Diary (C) Weeks 1 to 6	Page 4 of 14	

	use technology TODAY? (Mark ALL that apply.)
Learning	
Other (please specify):	
My child did not use technology tod	ay
Did you (or another adult caregive (Mark ALL that apply.)	r) use technology with your child in any of the following ways TOD/
Watched shows, movies, or videos	with my child
Played digital games or apps with r	-
	technology problems for my child (for example, if the game "froze" or
the computer needed to be restarted	ed)
Asked questions about the show/ga	ame my child was watching/playing
Answered questions my child asked	d me about the show/game he or she was watching/playing
	ws/games my child was watching/playing and things we do in our daily life
	nade pancakes for breakfast, just like Curious George made pancakes).
If so, what connection did you make	r (please specify):
Other (please specify):	
My child did not use technology tod	ay with me or another adult caregiver
What were you doing TODAY whil	ay with me or another adult caregiver e your child used media and technology at home (watching TV, usir tc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY whil computer, playing video games, et Household chores or tasks (like co	e your child used media and technology at home (watching TV, usir tc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY whil computer, playing video games, e Household chores or tasks (like co Caring for other children	e your child used media and technology at home (watching TV, usir tc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY whil computer, playing video games, et Household chores or tasks (like cod Caring for other children Working	e your child used media and technology at home (watching TV, usir tc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, er Household chores or tasks (like con Caring for other children Working Talking with friends or family	e your child used media and technology at home (watching TV, usir tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills)
What were you doing TODAY while computer, playing video games, er Household chores or tasks (like cod Caring for other children Working Talking with friends or family Watching TV/videos or playing gam	e your child used media and technology at home (watching TV, usir tc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, er Household chores or tasks (like con Caring for other children Working Talking with friends or family	e your child used media and technology at home (watching TV, usir tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills)
What were you doing TODAY while computer, playing video games, er Household chores or tasks (like cod Caring for other children Working Talking with friends or family Watching TV/videos or playing gam	e your child used media and technology at home (watching TV, usir tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills)
What were you doing TODAY while computer, playing video games, er Household chores or tasks (like cod Caring for other children Working Talking with friends or family Watching TV/videos or playing gam	e your child used media and technology at home (watching TV, usir tc.) without an adult? (Mark ALL that apply.) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like cod Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usir tc.) without an adult? (Mark ALL that apply.) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like cod Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usir tc.) without an adult? (Mark ALL that apply.) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like cod Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (Mark ALL that apply.) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like cod Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (Mark ALL that apply.) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like cod Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (Mark ALL that apply.) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like cod Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (Mark ALL that apply.) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like cod Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (Mark ALL that apply.) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like cod Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (Mark ALL that apply.) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like cod Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (Mark ALL that apply.) oking, cleaning or paying bills) nes/apps separately from my child (on another device)

WEEK 3		
Your name:	Today's date: (mon/day/yr)	Your relationship to child:
Which of the following technolog Television Laptop or desktop computer Tablet (such as an iPad, Galaxy T Video game system (such as an Z Smart phone (a phone that you ca Other (please specify):	ab, Nexus 7, Microsoft Surface, or k Kbox, PlayStation, or Wii)	Kindle Fire)
Please tell us a little bit about the me	edia that your child watched or	played TODAY.
2a Television show(s)		
Number of minutes watched:	to 15	n 30 🗌 Did not watch (skip ahead to 2b)
Name of program(s) watched:		
Who did your child watch with? (Mark All On his/her own With other kids (With brother(s) or sister(s) With parent/caregiver Other:	L that apply.) like friends or cousins)	How did your child feel about the resource? Fun/Interesting Boring Confusing Other:
Name of	to 15 🗌 16 to 30 🗌 More tha	n 30 Did not watch (skip ahead to 2c)
video(s) watched: Who did your child watch with? (Mark All On his/her own With other kids (With brother(s) or sister(s) With parent/caregiver Other:	<i>L that apply.)</i> like friends or cousins)	How did your child feel about the resource?
2c Computer game(s) Number of minutes played: 1 to	o 15 🗌 16 to 30 🗌 More than 5	30 Did not play (skip ahead to 2d)
Name of game(s) played:		
Who did your child watch with? (Mark All On his/her own With other kids (With brother(s) or sister(s) With parent/caregiver Other:		How did your child feel about the resource?
2d Other media resource(s) Number of minutes used: 1 to	15 🗌 16 to 30 🗌 More than 3	0 Did not use (skip ahead to question 3)
Name of resource(s) used:	22222	
Who did your child use them with? (Mar	k ALL that apply.) like friends or cousins)	How did your child feel about the resource?
RTL 2014 Media Diary (C) Weeks 1 to 6	Page 6 of 14	

	d use technology TODAY? (Mark ALL that apply.)
Entertainment	
Other (please specify):	
My child did not use technology t	today
Did you (or another adult caregi (Mark ALL that apply.)	ver) use technology with your child in any of the following ways TOD
Watched shows, movies, or vide	os with my child
Played digital games or apps with	-
	fix technology problems for my child (for example, if the game "froze" or
the computer needed to be resta	arted)
Asked questions about the show	/game my child was watching/playing
	ked me about the show/game he or she was watching/playing
	shows/games my child was watching/playing and things we do in our daily life
· · ·	e made pancakes for breakfast, just like Curious George made pancakes).
If so, what connection did you ma	ake? (please specify):
Other (please specify):	
My shild did not use technology (today with major another adult caragiver
My child did not use technology t	today with me or another adult caregiver
My child did not use technology t	today with me or another adult caregiver
What were you doing TODAY wi	hile your child used media and technology at home (watching TV, usi
What were you doing TODAY wi	
What were you doing TODAY will computer, playing video games,	hile your child used media and technology at home (watching TV, usin, etc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY will computer, playing video games,	hile your child used media and technology at home (watching TV, usin, etc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like of Caring for other children	hile your child used media and technology at home (watching TV, usin, etc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like Caring for other children Working Talking with friends or family	hile your child used media and technology at home (watching TV, usin, etc.) without an adult? (Mark ALL that apply.) cooking, cleaning or paying bills)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g	hile your child used media and technology at home (watching TV, usin, etc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like Caring for other children Working Talking with friends or family	hile your child used media and technology at home (watching TV, usin, etc.) without an adult? (Mark ALL that apply.) cooking, cleaning or paying bills)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g	hile your child used media and technology at home (watching TV, usin, etc.) without an adult? (Mark ALL that apply.) cooking, cleaning or paying bills)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like of Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin, etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) ames/apps separately from my child (on another device)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g	hile your child used media and technology at home (watching TV, usin, etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) ames/apps separately from my child (on another device)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like of Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin, etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) ames/apps separately from my child (on another device)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like of Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin, etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) ames/apps separately from my child (on another device)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like of Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin, etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) ames/apps separately from my child (on another device)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like of Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin, etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) ames/apps separately from my child (on another device)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like of Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin, etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) ames/apps separately from my child (on another device)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like of Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin, etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) ames/apps separately from my child (on another device)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like of Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin, etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) ames/apps separately from my child (on another device)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like of Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin, etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) ames/apps separately from my child (on another device)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like of Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin, etc.) without an adult? (Mark ALL that apply.) cooking, cleaning or paying bills) ames/apps separately from my child (on another device) chnology without an adult today
What were you doing TODAY will computer, playing video games, Household chores or tasks (like of Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin, etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) ames/apps separately from my child (on another device)

WEEK 4		
Your name:	Today's date: (mon/day/y	r) Your relationship to child:
 Television Laptop or desktop computer Tablet (such as an iPad, Gala Video game system (such as 	blogy devices did your child use xy Tab, Nexus 7, Microsoft Surface, or an Xbox, PlayStation, or Wii) u can also use to send email, watch v	r Kindle Fire)
Please tell us a little bit about the	media that your child watched o	or played TODAY.
2a Television show(s)		
Number of minutes watched:	1 to 15 16 to 30 More th	nan 30 Did not watch (skip ahead to 2b)
Name of program(s) watched:		
Who did your child watch with? (Mar On his/her own With other ki With brother(s) or sister(s) With parent/caregiver Oth	ds (like friends or cousins)	How did your child feel about the resource?
2b Video(s) Number of minutes watched:	1 to 15 16 to 30 More t	nan 30 Did not watch (skip ahead to 2c)
Name of video(s) watched: Who did your child watch with? (Mar On his/her own With other ki With brother(s) or sister(s) With parent/caregiver Oth	ds (like friends or cousins)	How did your child feel about the resource?
2c Computer game(s) Number of minutes played:	1 to 15 🗌 16 to 30 🗌 More that	n 30 🗌 Did not play (skip ahead to 2d)
Name of game(s) played:		
Who did your child watch with? (Mar	ds (like friends or cousins)	How did your child feel about the resource? Fun/Interesting Boring Confusing Other:
2d Other media resource(s) Number of minutes used:	1 to 15 🗌 16 to 30 🗌 More than	30 Did not use (skip ahead to question 3)
Name of resource(s) used:		
Who did your child use them with? (ds (like friends or cousins)	How did your child feel about the resource? Fun/Interesting Boring Confusing Other:
RTL 2014 Media Diary (C) Weeks 1 to 6	Page 8 of 14	

For what purposes did your child u	se technology TODAY? (Mark ALL that apply.)
Learning	
Entertainment	
Other (please specify):	
My child did not use technology toda	y
(Mark ALL that apply.)) use technology with your child in any of the following ways TOD/
Watched shows, movies, or videos w	vith my child
Played digital games or apps with my	-
Helped set up the technology or fix to	echnology problems for my child (for example, if the game "froze" or
the computer needed to be restarted	d)
Asked questions about the show/gar	ne my child was watching/playing
=	me about the show/game he or she was watching/playing
	vs/games my child was watching/playing and things we do in our daily life
	ade pancakes for breakfast, just like Curious George made pancakes).
If so, what connection did you make?	' (please specify):
Other (please specify):	
My shild did not use technology toda	10 0 1 K 1
	y with me or another adult caregiver
What were you doing TODAY while	y with me or another adult caregiver your child used media and technology at home (watching TV, usir c.) without an adult? (<i>Mark ALL that apply.</i>)
What were you doing TODAY while	your child used media and technology at home (watching TV, usir c.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children	your child used media and technology at home (watching TV, usir c.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cook Caring for other children Working	your child used media and technology at home (watching TV, usir c.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family	your child used media and technology at home (watching TV, usir c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game	your child used media and technology at home (watching TV, usir c.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family	your child used media and technology at home (watching TV, usir c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game	your child used media and technology at home (watching TV, usir c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	your child used media and technology at home (watching TV, usir c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game	your child used media and technology at home (watching TV, usir c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	your child used media and technology at home (watching TV, usir c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	your child used media and technology at home (watching TV, usir c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	your child used media and technology at home (watching TV, usir c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	your child used media and technology at home (watching TV, usir c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	your child used media and technology at home (watching TV, usir c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	your child used media and technology at home (watching TV, usir c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	your child used media and technology at home (watching TV, usir c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	your child used media and technology at home (watching TV, usir c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	your child used media and technology at home (watching TV, usir c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)

WEEK 5		
Your name:	Today's date: (mon/day/yr) Your relationship to child:
 Television Laptop or desktop computer Tablet (such as an iPad, Gala Video game system (such as 	ology devices did your child use axy Tab, Nexus 7, Microsoft Surface, or an Xbox, PlayStation, or Wii) ou can also use to send email, watch vi	[.] Kindle Fire)
Please tell us a little bit about the	e media that your child watched o	or played TODAY.
2a Television show(s)		
Number of minutes watched:	1 to 15 16 to 30 More th	nan 30 Did not watch (skip ahead to 2b)
Name of program(s) watched:		
Who did your child watch with? (Mail On his/her own With other k With brother(s) or sister(s) With parent/caregiver Other	ids (like friends or cousins)	How did your child feel about the resource?
2b Video(s) Number of minutes watched:	1 to 15 16 to 30 More th	nan 30 🗌 Did not watch (skip ahead to 2c)
Name of video(s) watched: Who did your child watch with? (Mail On his/her own With other k With brother(s) or sister(s) With parent/caregiver Oth	ids (like friends or cousins)	How did your child feel about the resource?
2c Computer game(s) Number of minutes played:	1 to 15 🗌 16 to 30 🗌 More thar	n 30 🗌 Did not play (skip ahead to 2d)
Name of game(s) played:		
Who did your child watch with? (Mai	ids (like friends or cousins)	How did your child feel about the resource? Fun/Interesting Boring Confusing Other:
2d Other media resource(s) Number of minutes used:	1 to 15 🗌 16 to 30 🗌 More than	30 Did not use (skip ahead to question 3)
Name of resource(s) used:		
Who did your child use them with? (ids (like friends or cousins)	How did your child feel about the resource? Fun/Interesting Boring Confusing Other:
RTL 2014 Media Diary (C) Weeks 1 to 6	Page 10 of 14	

For what purposes did your child u	use technology TODAY? (Mark ALL that apply.)
Learning	
Entertainment	
Other (please specify):	
My child did not use technology tod	ау
Did vou (or another adult caregive	r) use technology with your child in any of the following ways TOD
(Mark ALL that apply.)	·,
Watched shows, movies, or videos	with my child
Played digital games or apps with n	ny child
Helped set up the technology or fix	technology problems for my child (for example, if the game "froze" or
the computer needed to be restarted	ed)
Asked questions about the show/ga	ame my child was watching/playing
	d me about the show/game he or she was watching/playing
	ws/games my child was watching/playing and things we do in our daily life
	nade pancakes for breakfast, just like Curious George made pancakes).
If so, what connection did you make	? (please specify):
Other (please specify):	
My child did not use technology toda	ay with me or another adult caregiver
What were you doing TODAY while	ay with me or another adult caregiver e your child used media and technology at home (watching TV, usin tc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, ef	e your child used media and technology at home (watching TV, usintc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coc Caring for other children	e your child used media and technology at home (watching TV, usintc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coc Caring for other children Working	e your child used media and technology at home (watching TV, usintc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coc Caring for other children Working Talking with friends or family	e your child used media and technology at home (watching TV, usin tc.) without an adult? (Mark ALL that apply.) oking, cleaning or paying bills)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coc Caring for other children Working Talking with friends or family Watching TV/videos or playing gam	e your child used media and technology at home (watching TV, usintc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coc Caring for other children Working Talking with friends or family	e your child used media and technology at home (watching TV, usin tc.) without an adult? (Mark ALL that apply.) oking, cleaning or paying bills)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coc Caring for other children Working Talking with friends or family Watching TV/videos or playing gam	e your child used media and technology at home (watching TV, usin tc.) without an adult? (Mark ALL that apply.) oking, cleaning or paying bills)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coc Caring for other children Working Talking with friends or family Watching TV/videos or playing gam	e your child used media and technology at home (watching TV, usin tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, ef Household chores or tasks (like coc Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, ef Household chores or tasks (like coc Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, ef Household chores or tasks (like coc Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, ef Household chores or tasks (like coc Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, ef Household chores or tasks (like coc Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, ef Household chores or tasks (like coc Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, ef Household chores or tasks (like coc Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, ef Household chores or tasks (like coc Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, ef Household chores or tasks (like coc Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) nes/apps separately from my child (on another device)

WEEK 6		
Your name:	Today's date: (mon/day/y	r) Your relationship to child:
 Television Laptop or desktop comp Tablet (such as an iPad Video game system (such as an iPad) 	echnology devices did your child use buter , Galaxy Tab, Nexus 7, Microsoft Surface, o ch as an Xbox, PlayStation, or Wii) hat you can also use to send email, watch v	r Kindle Fire)
Please tell us a little bit abou	ut the media that your child watched o	or played TODAY.
2a Television show(s)		
Number of minutes watche	d: 1 to 15 16 to 30 More th	han 30 Did not watch (skip ahead to 2b)
program(s) watched:		
Who did your child watch with ? On his/her own With of With brother(s) or sister(s) With parent/caregiver	? (Mark ALL that apply.) her kids (like friends or cousins)	How did your child feel about the resource?
2b Video(s)		
Number of minutes watche	d: 1 to 15 16 to 30 More ti	han 30 Did not watch (skip ahead to 2c)
Name of video(s) watched: Who did your child watch with?		How did your child feel about the resource?
 On his/her own With ot With brother(s) or sister(s) With parent/caregiver 	her kids (like friends or cousins)	Fun/Interesting Boring Confusing Other:
2c Computer game(s) Number of minutes played:	□ 1 to 15 □ 16 to 30 □ More tha	n 30 🗌 Did not play (skip ahead to 2d)
Name of game(s) played:		
Who did your child watch with?	? (Mark ALL that apply.) ther kids (like friends or cousins)	How did your child feel about the resource?
2d Other media resource(s) Number of minutes used:	☐ 1 to 15 ☐ 16 to 30 ☐ More than	30 Did not use (skip ahead to question 3)
Name of resource(s) used:		
Who did your child use them w On his/her own With ot With brother(s) or sister(s) With parent/caregiver	ith? (Mark ALL that apply.) ther kids (like friends or cousins)	How did your child feel about the resource?
RTL 2014 Media Diary (C) Weeks 1 to 6	Page 12 of 14	5014

	use technology TODAY? (Mark ALL that apply.)
Cther (places specify):	
Other (please specify):	
My child did not use technology toda	ay
	r) use technology with your child in any of the following ways TOE
(Mark ALL that apply.)	
Watched shows, movies, or videos	-
Played digital games or apps with m	-
Helped set up the technology or fix the computer needed to be restarte	technology problems for my child (for example, if the game "froze" or
Asked questions about the show/ga	
	I me about the show/game he or she was watching/playing
	ws/games my child was watching/playing and things we do in our daily life
	nade pancakes for breakfast, just like Curious George made pancakes).
If so, what connection did you make	
Other (please specify):	
My child did not use technology toda	ay with me or another adult caregiver
My child did not use technology toda	ay with me or another adult caregiver
What were you doing TODAY while	e your child used media and technology at home (watching TV, us
What were you doing TODAY while computer, playing video games, et	e your child used media and technology at home (watching TV, usite.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, et	e your child used media and technology at home (watching TV, usite.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo	e your child used media and technology at home (watching TV, usite.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working	e your child used media and technology at home (watching TV, usite.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family	e your child used media and technology at home (watching TV, usite.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family	e your child used media and technology at home (watching TV, use tc.) without an adult? (Mark ALL that apply.) oking, cleaning or paying bills)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam	e your child used media and technology at home (watching TV, use tc.) without an adult? (Mark ALL that apply.) oking, cleaning or paying bills)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam	e your child used media and technology at home (watching TV, usi tc.) without an adult? (Mark ALL that apply.) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usi tc.) without an adult? (Mark ALL that apply.) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify): My child did not use media or techn	e your child used media and technology at home (watching TV, usit tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usit tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify): My child did not use media or techn This concludes your Media Diary	e your child used media and technology at home (watching TV, usit tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify): My child did not use media or techn This concludes your Media Diary	e your child used media and technology at home (watching TV, usit tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify): My child did not use media or techn This concludes your Media Diary	e your child used media and technology at home (watching TV, usit tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) nes/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify): My child did not use media or techn This concludes your Media Diary	e your child used media and technology at home (watching TV, usit tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) nes/apps separately from my child (on another device)

Region:		
Class:		
Center:		
RTL 2014 Media Diary (C) Weeks 1 to 6	Page 14 of 14	

									Poor A	PHE COL	53 00 00 00 00 00 00 00 00 00 00 00 00 00	READ	YTOL	B	GRAM	C													
					N	P lec						н - \								2									
IM	PORT	ANT	: Plea	ase u espor	use a	BL	ACK	Сре	n. N	lark	res	pons	se bo	oxes	s wit	h ar	י 🛛	. Us	e b	loc	k pr and	rinti d C	ng f	for a	any it.	/ te>	xt or		
					PI	eas	e p	oro	ovic	le	the	fo	llov	vin	g i	nfo	orn	nat	ioı	n.									_
Child's	s First	Nar	ne:	-	1			1	1	1	_		—	_								Т					1		٦
Child's	s Last	Nan	ne:																										
Class:																													
											Τ								Т					Τ			Γ]
Cente	r:																										-		_
							Reg	jion	C	ente	Ι	ff us	e on	Γ	I	CI	hild												
RTL 20 Weeks	014 M s 7 to 1	edia 12	Diary	/ (C)							Pa	ge 1	of 1	4													17	7174	

WEEK 7		
Your name:	Today's date: (mon/day/y	r) Your relationship to child:
 Television Laptop or desktop computer Tablet (such as an iPad, Ga Video game system (such a 	laxy Tab, Nexus 7, Microsoft Surface, o	r Kindle Fire)
Please tell us a little bit about th	e media that your child watched	or played TODAY.
2a Television show(s)		
Number of minutes watched:	1 to 15 16 to 30 More t	han 30 Did not watch (skip ahead to 2b)
Name of program(s) watched:		
With brother(s) or sister(s)	ark ALL that apply.) kids (like friends or cousins) her:	How did your child feel about the resource?
2b Video(s) Number of minutes watched: Name of video(s) watched: Who did your child watch with? (M. On his/her own With other With brother(s) or sister(s)		han 30 Did not watch (skip ahead to 2c) How did your child feel about the resource? Fun/Interesting Boring Confusing Other:
With parent/caregiver Of Computer game(s) Number of minutes played:	her:	n 30 🗌 Did not play (skip ahead to 2d)
Name of game(s) played:		
Who did your child watch with? (M. On his/her own With other With brother(s) or sister(s)	ark ALL that apply.) kids (like friends or cousins)	How did your child feel about the resource?
2d Other media resource(s) Number of minutes used:] 1 to 15 🗌 16 to 30 🗌 More than	30 Did not use (skip ahead to question 3)
Name of resource(s) used:		
Who did your child use them with? On his/her own With other With brother(s) or sister(s)	(Mark ALL that apply.) kids (like friends or cousins) her:	How did your child feel about the resource?
RTL 2014 Media Diary (C) Weeks 7 to 12	Page 2 of 14	

For what purposes did your child u	se technology TODAY? (Mark ALL that apply.)
Entertainment	
Other (please specify):	
☐ My child did not use technology toda	ay
) use technology with your child in any of the following ways TODA
(Mark ALL that apply.)	
Watched shows, movies, or videos v	vith my child
Played digital games or apps with m	y child
	echnology problems for my child (for example, if the game "froze" or
the computer needed to be restarted	
Asked questions about the show/gar	
	me about the show/game he or she was watching/playing
	vs/games my child was watching/playing and things we do in our daily life ade pancakes for breakfast, just like Curious George made pancakes).
If so, what connection did you make?	
	(prodec specify).
Other (please specify):	
My child did not use technology toda	ay with me or another adult caregiver
computer, playing video games, etc	c.) without an adult? (Mark ALL that apply.)
computer, playing video games, etc	c.) without an adult? (Mark ALL that apply.)
computer, playing video games, etc Household chores or tasks (like cool Caring for other children	c.) without an adult? (Mark ALL that apply.)
computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working	c.) without an adult? (Mark ALL that apply.)
computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family	c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills)
computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family	c.) without an adult? (Mark ALL that apply.)
computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game	c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills)
computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game	c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills)
computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game	c.) without an adult? (<i>Mark ALL that apply.</i>) king, cleaning or paying bills) es/apps separately from my child (on another device)
<pre>computer, playing video games, etc</pre>	c.) without an adult? (<i>Mark ALL that apply.</i>) king, cleaning or paying bills) es/apps separately from my child (on another device)
<pre>computer, playing video games, etc</pre>	c.) without an adult? (<i>Mark ALL that apply.</i>) king, cleaning or paying bills) es/apps separately from my child (on another device)
<pre>computer, playing video games, etc</pre>	c.) without an adult? (<i>Mark ALL that apply.</i>) king, cleaning or paying bills) es/apps separately from my child (on another device)
<pre>computer, playing video games, etc</pre>	c.) without an adult? (<i>Mark ALL that apply.</i>) king, cleaning or paying bills) es/apps separately from my child (on another device)
<pre>computer, playing video games, etc</pre>	c.) without an adult? (<i>Mark ALL that apply.</i>) king, cleaning or paying bills) es/apps separately from my child (on another device)
<pre>computer, playing video games, etc</pre>	c.) without an adult? (<i>Mark ALL that apply.</i>) king, cleaning or paying bills) es/apps separately from my child (on another device)
<pre>computer, playing video games, etc</pre>	c.) without an adult? (<i>Mark ALL that apply.</i>) king, cleaning or paying bills) es/apps separately from my child (on another device)
<pre>computer, playing video games, etc</pre>	c.) without an adult? (<i>Mark ALL that apply.</i>) king, cleaning or paying bills) es/apps separately from my child (on another device)
<pre>computer, playing video games, etc</pre>	king, cleaning or paying bills) es/apps separately from my child (on another device) blogy without an adult today
<pre>computer, playing video games, etc</pre>	c.) without an adult? (<i>Mark ALL that apply.</i>) king, cleaning or paying bills) es/apps separately from my child (on another device)

WEEK 8		
Your name:	Today's date: (mon/day/y)) Your relationship to child:
 Television Laptop or desktop computer Tablet (such as an iPad, Gala Video game system (such as 	blogy devices did your child use xy Tab, Nexus 7, Microsoft Surface, or an Xbox, PlayStation, or Wii) u can also use to send email, watch v	^r Kindle Fire)
Please tell us a little bit about the	media that your child watched o	or played TODAY.
2a Television show(s)		
Number of minutes watched:	1 to 15 16 to 30 More th	nan 30
Name of program(s) watched:		
Who did your child watch with? (Mar On his/her own With other ki With brother(s) or sister(s) With parent/caregiver Other	ds (like friends or cousins)	How did your child feel about the resource? Fun/Interesting Boring Confusing Other:
With brother(s) or sister(s)	ds (like friends or cousins)	han 30 Did not watch (skip ahead to 2c) How did your child feel about the resource? Fun/Interesting Boring Confusing Other: Other: Other: Other:
With parent/caregiver Other Other Other Computer game(s) Number of minutes played: Name of	1 to 15	n 30 🗌 Did not play (skip ahead to 2d)
game(s) played: Who did your child watch with? (Mar On his/her own With other ki With brother(s) or sister(s) With parent/caregiver Other	ds (like friends or cousins)	How did your child feel about the resource? Fun/Interesting Boring Confusing Other:
2d Other media resource(s) Number of minutes used:	1 to 15 🗌 16 to 30 🗌 More than	30 Did not use (skip ahead to question 3)
Name of resource(s) used:		
Who did your child use them with? (i On his/her own With other ki With brother(s) or sister(s) With parent/caregiver Oth	ds (like friends or cousins)	How did your child feel about the resource? Fun/Interesting Boring Confusing Other:
RTL 2014 Media Diary (C) Weeks 7 to 12	Page 4 of 14	

For what purposes did your child u	use technology TODAY? (Mark ALL that apply.)
Entertainment	
── ☐ Other (please specify):	
My child did not use technology toda	ау
Did you (or another adult caregive	r) use technology with your child in any of the following ways TOD
(Mark ALL that apply.)	
Watched shows, movies, or videos	with my child
Played digital games or apps with m	-
	technology problems for my child (for example, if the game "froze" or
the computer needed to be restarted	ed)
Asked questions about the show/ga	me my child was watching/playing
Answered questions my child asked	I me about the show/game he or she was watching/playing
	ws/games my child was watching/playing and things we do in our daily life
	nade pancakes for breakfast, just like Curious George made pancakes).
If so, what connection did you make	? (please specify):
Other (please specify):	
My child did not use technology toda	ay with me or another adult caregiver
What were you doing TODAY while	ay with me or another adult caregiver e your child used media and technology at home (watching TV, usin tc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, et	e your child used media and technology at home (watching TV, usin tc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo	e your child used media and technology at home (watching TV, usin tc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working	e your child used media and technology at home (watching TV, usin tc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family	e your child used media and technology at home (watching TV, usin c.) without an adult? (Mark ALL that apply.) oking, cleaning or paying bills)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam	e your child used media and technology at home (watching TV, usin tc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family	e your child used media and technology at home (watching TV, usin c.) without an adult? (Mark ALL that apply.) oking, cleaning or paying bills)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam	e your child used media and technology at home (watching TV, usin c.) without an adult? (Mark ALL that apply.) oking, cleaning or paying bills)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam	e your child used media and technology at home (watching TV, usin tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, et Household chores or tasks (like coo Caring for other children Working Talking with friends or family Watching TV/videos or playing gam Other (please specify):	e your child used media and technology at home (watching TV, usin tc.) without an adult? (<i>Mark ALL that apply.</i>) oking, cleaning or paying bills) es/apps separately from my child (on another device)

WEEK 9		
Your name:	Today's date: (mon/day/y	Your relationship to child:
Which of the following technology Television Laptop or desktop computer Tablet (such as an iPad, Galaxy Taking Video game system (such as an Xing Smart phone (a phone that you can Other (please specify):	ab, Nexus 7, Microsoft Surface, or box, PlayStation, or Wii)	r Kindle Fire)
Please tell us a little bit about the mee	dia that your child watched o	or played TODAY.
2a Television show(s)		_
	to 15 🔲 16 to 30 🗌 More th	nan 30 Did not watch (skip ahead to 2b)
Name of program(s) watched:		
Who did your child watch with? (Mark ALL On his/her own With other kids (liil With brother(s) or sister(s) With parent/caregiver Other:	L that apply.) ke friends or cousins)	How did your child feel about the resource?
Name of video(s) watched: Who did your child watch with? (Mark ALL On his/her own With other kids (liil With brother(s) or sister(s)	to 15 16 to 30 More the second	han 30 Did not watch (skip ahead to 2c) How did your child feel about the resource? Fun/Interesting Boring Confusing Other: Other: Other:
With parent/caregiver Other: Computer game(s) Number of minutes played: 1 to Name of	15 🗌 16 to 30 🗌 More than	n 30 🗌 Did not play (skip ahead to 2d)
game(s) played: Who did your child watch with? (Mark ALL On his/her own With other kids (liii) With brother(s) or sister(s) With parent/caregiver Other:		How did your child feel about the resource?
2d Other media resource(s) Number of minutes used: 1 to 1	5 🗌 16 to 30 🗌 More than	30 Did not use (skip ahead to question 3)
Name of resource(s) used:		
Who did your child use them with? (Mark On his/her own With other kids (liii With brother(s) or sister(s) With parent/caregiver Other:		How did your child feel about the resource? Fun/Interesting Boring Confusing Other:
RTL 2014 Media Diary (C) Weeks 7 to 12	Page 6 of 14	

	Id use technology TODAY? (Mark ALL that apply.)
Characteria Entertainment Characteria Cha	
Other (please specify):	
My child did not use technology	today
Did you (or another adult careg (Mark ALL that apply.)	iver) use technology with your child in any of the following ways TOD
Watched shows, movies, or vide	eos with my child
Played digital games or apps with	th my child
Helped set up the technology or	fix technology problems for my child (for example, if the game "froze" or
the computer needed to be rest	arted)
Asked questions about the show	v/game my child was watching/playing
— ,	ked me about the show/game he or she was watching/playing
	shows/games my child was watching/playing and things we do in our daily life
	ve made pancakes for breakfast, just like Curious George made pancakes).
If so, what connection did you ma	ake? (please specify):
Other (please specify):	
-	
My child did not use technology	today with me or another adult caregiver
My child did not use technology	today with me or another adult caregiver
What were you doing TODAY w	hile your child used media and technology at home (watching TV, usi
What were you doing TODAY w computer, playing video games	hile your child used media and technology at home (watching TV, usin , etc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY w computer, playing video games	hile your child used media and technology at home (watching TV, usin , etc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY w computer, playing video games Household chores or tasks (like Caring for other children	hile your child used media and technology at home (watching TV, usin , etc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY w computer, playing video games Household chores or tasks (like Caring for other children Working	hile your child used media and technology at home (watching TV, usin , etc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY w computer, playing video games Household chores or tasks (like Caring for other children Working Talking with friends or family	hile your child used media and technology at home (watching TV, using, etc.) without an adult? (Mark ALL that apply.) cooking, cleaning or paying bills)
What were you doing TODAY w computer, playing video games Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g	hile your child used media and technology at home (watching TV, usin , etc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY w computer, playing video games Household chores or tasks (like Caring for other children Working Talking with friends or family	hile your child used media and technology at home (watching TV, using, etc.) without an adult? (Mark ALL that apply.) cooking, cleaning or paying bills)
What were you doing TODAY w computer, playing video games Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g	hile your child used media and technology at home (watching TV, using, etc.) without an adult? (Mark ALL that apply.) cooking, cleaning or paying bills)
What were you doing TODAY w computer, playing video games Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin , etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) games/apps separately from my child (on another device)
What were you doing TODAY w computer, playing video games Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g	hile your child used media and technology at home (watching TV, usin , etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) games/apps separately from my child (on another device)
What were you doing TODAY w computer, playing video games Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin , etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) games/apps separately from my child (on another device)
What were you doing TODAY w computer, playing video games Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin , etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) games/apps separately from my child (on another device)
What were you doing TODAY w computer, playing video games Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin , etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) games/apps separately from my child (on another device)
What were you doing TODAY w computer, playing video games Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin , etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) games/apps separately from my child (on another device)
What were you doing TODAY w computer, playing video games Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin , etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) games/apps separately from my child (on another device)
What were you doing TODAY w computer, playing video games Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin , etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) games/apps separately from my child (on another device)
What were you doing TODAY w computer, playing video games Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin , etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) games/apps separately from my child (on another device)
What were you doing TODAY w computer, playing video games Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin , etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) games/apps separately from my child (on another device)
What were you doing TODAY w computer, playing video games Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin , etc.) without an adult? (Mark ALL that apply.) cooking, cleaning or paying bills) games/apps separately from my child (on another device) chnology without an adult today
What were you doing TODAY w computer, playing video games Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usin , etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) games/apps separately from my child (on another device)

WEEK 10		
Your name:	Today's date: (mon/day/y	Your relationship to child:
 Television Laptop or desktop computer Tablet (such as an iPad, Galaz Video game system (such as a) 	logy devices did your child use ky Tab, Nexus 7, Microsoft Surface, or an Xbox, PlayStation, or Wii) u can also use to send email, watch v	r Kindle Fire)
Please tell us a little bit about the	media that your child watched o	or played TODAY.
2a Television show(s)		
Number of minutes watched:	1 to 15 16 to 30 More th	nan 30 Did not watch (skip ahead to 2b)
Name of program(s) watched:		
Who did your child watch with? (Mark On his/her own With other kid With brother(s) or sister(s) With parent/caregiver Other	ds (like friends or cousins)	How did your child feel about the resource?
2b Video(s) Number of minutes watched:	1 to 15 16 to 30 More t	nan 30 Did not watch (skip ahead to 2c)
Name of video(s) watched: Who did your child watch with? (Mark On his/her own With other kid With brother(s) or sister(s) With brother(s) or sister(s) With parent/caregiver	ds (like friends or cousins)	How did your child feel about the resource? Fun/Interesting Boring Confusing Other:
2c Computer game(s) Number of minutes played:	1 to 15 🗌 16 to 30 🗌 More tha	n 30 🗌 Did not play (skip ahead to 2d)
Name of game(s) played:		
Who did your child watch with? (Marting the construction of the constructio	Is (like friends or cousins)	How did your child feel about the resource? Fun/Interesting Boring Confusing Other:
2d Other media resource(s) Number of minutes used:	to 15 🗌 16 to 30 🗌 More than	30 Did not use (skip ahead to question 3)
Name of resource(s) used:		
Who did your child use them with? (/	ds (like friends or cousins)	How did your child feel about the resource? Fun/Interesting Boring Confusing Other:
RTL 2014 Media Diary (C) Weeks 7 to 12	Page 8 of 14	

	ise technology TODAY? (Mark ALL that apply.)
Cther (plage apositiv):	
Other (please specify):	
My child did not use technology toda	λλ.
Did you (or another adult caregiver (Mark ALL that apply.)) use technology with your child in any of the following ways TOD
Watched shows, movies, or videos v	with my child
Played digital games or apps with m	y child
Helped set up the technology or fix t	echnology problems for my child (for example, if the game "froze" or
the computer needed to be restarted	d)
Asked questions about the show/gar	me my child was watching/playing
Answered questions my child asked	me about the show/game he or she was watching/playing
Made connections between the show	ws/games my child was watching/playing and things we do in our daily life
(for example, talked about how we m	ade pancakes for breakfast, just like Curious George made pancakes).
If so, what connection did you make?	? (please specify):
Other (please specify):	
My shild did not use technology toda	wwith me or another adult correction
My child did not use technology toda	ay with me or another adult caregiver
My child did not use technology toda	ay with me or another adult caregiver
	ay with me or another adult caregiver e your child used media and technology at home (watching TV, usin
What were you doing TODAY while	
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool	your child used media and technology at home (watching TV, usinc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, et	your child used media and technology at home (watching TV, usinc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool	your child used media and technology at home (watching TV, usinc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children	your child used media and technology at home (watching TV, usinc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game	your child used media and technology at home (watching TV, usinc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family	e your child used media and technology at home (watching TV, usin c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game	e your child used media and technology at home (watching TV, usin c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	e your child used media and technology at home (watching TV, usin c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game	e your child used media and technology at home (watching TV, usin c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	e your child used media and technology at home (watching TV, usin c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	e your child used media and technology at home (watching TV, usin c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	e your child used media and technology at home (watching TV, usin c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	e your child used media and technology at home (watching TV, usin c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	e your child used media and technology at home (watching TV, usin c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	e your child used media and technology at home (watching TV, usin c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	e your child used media and technology at home (watching TV, usin c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	e your child used media and technology at home (watching TV, usin c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	e your child used media and technology at home (watching TV, usin c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)
What were you doing TODAY while computer, playing video games, etc Household chores or tasks (like cool Caring for other children Working Talking with friends or family Watching TV/videos or playing game Other (please specify):	e your child used media and technology at home (watching TV, usin c.) without an adult? (Mark ALL that apply.) king, cleaning or paying bills) es/apps separately from my child (on another device)

WEEK 11
Your name: Today's date: (mon/day/yr) Your relationship to child:
Which of the following technology devices did your child use TODAY? (Mark ALL that apply.) □ Television □ Laptop or desktop computer □ Tablet (such as an iPad, Galaxy Tab, Nexus 7, Microsoft Surface, or Kindle Fire) □ Video game system (such as an Xbox, PlayStation, or Wii) □ Smart phone (a phone that you can also use to send email, watch videos, or access the Internet) □ Other (please specify):
Please tell us a little bit about the media that your child watched or played TODAY.
2a Television show(s)
Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch (skip ahead to 2b) Name of
program(s) watched:
Who did your child watch with? (Mark ALL that apply.) How did your child feel about the resource? On his/her own With other kids (like friends or cousins) Fun/Interesting Boring Confusing With brother(s) or sister(s) Other: Other: Other: Other:
2b Video(s) Number of minutes watched: 1 to 15 16 to 30 More than 30 Did not watch (skip ahead to 2c) Name of video(s) watched:
Who did your child watch with? (Mark ALL that apply.) How did your child feel about the resource? On his/her own With other kids (like friends or cousins) With brother(s) or sister(s) Other: With parent/caregiver Other:
2c Computer game(s) Number of minutes played: 1 to 15 16 to 30 More than 30 Did not play (skip ahead to 2d)
Name of game(s) played:
Who did your child watch with? (Mark ALL that apply.) How did your child feel about the resource? On his/her own With other kids (like friends or cousins) Fun/Interesting With brother(s) or sister(s) Other: Other: With parent/caregiver Other: Other:
2d Other media resource(s) Number of minutes used: 1 to 15 16 to 30 More than 30 Did not use (skip ahead to question 3)
Name of resource(s) used:
Who did your child use them with? (Mark ALL that apply.) How did your child feel about the resource? On his/her own With other kids (like friends or cousins) Fun/Interesting With brother(s) or sister(s) Other: Other:
RTL 2014 Media Diary (C) Page 10 of 14

· · · · · · · · · · · · · · · · · · ·	I use technology TODAY? (Mark ALL that apply.)
Entertainment	
Other (please specify):	
My child did not use technology to	bday
Did you (or another adult caregiv (Mark ALL that apply.)	rer) use technology with your child in any of the following ways TOD/
	a with my child
Watched shows, movies, or video Played digital games or apps with	-
	x technology problems for my child (for example, if the game "froze" or
the computer needed to be restar	
Asked questions about the show/g	-
	ed me about the show/game he or she was watching/playing
	nows/games my child was watching/playing and things we do in our daily life
	made pancakes for breakfast, just like Curious George made pancakes).
If so, what connection did you mak	
Other (please specify):	
My child did not use technology to	oday with me or another adult caregiver
What were you doing TODAY wh	iday with me or another adult caregiver ile your child used media and technology at home (watching TV, usir etc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY wh	ile your child used media and technology at home (watching TV, usir etc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY whi computer, playing video games, o	ile your child used media and technology at home (watching TV, usir etc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY whi computer, playing video games, o Household chores or tasks (like co	ile your child used media and technology at home (watching TV, usir etc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY whi computer, playing video games, o Household chores or tasks (like co Caring for other children	ile your child used media and technology at home (watching TV, usir etc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY whi computer, playing video games, of Household chores or tasks (like co Caring for other children Working Talking with friends or family	ile your child used media and technology at home (watching TV, usir etc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY whi computer, playing video games, of Household chores or tasks (like co Caring for other children Working Talking with friends or family	ile your child used media and technology at home (watching TV, usir etc.) without an adult? (Mark ALL that apply.) poking, cleaning or paying bills)
What were you doing TODAY whit computer, playing video games, of Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing ga	ile your child used media and technology at home (watching TV, usir etc.) without an adult? (Mark ALL that apply.) poking, cleaning or paying bills)
What were you doing TODAY whi computer, playing video games, o Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing ga Other (please specify):	ile your child used media and technology at home (watching TV, usinetc.) without an adult? (Mark ALL that apply.) ooking, cleaning or paying bills) mes/apps separately from my child (on another device)
What were you doing TODAY whit computer, playing video games, of Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing ga	ile your child used media and technology at home (watching TV, usinetc.) without an adult? (Mark ALL that apply.) ooking, cleaning or paying bills) mes/apps separately from my child (on another device)
What were you doing TODAY whi computer, playing video games, o Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing ga Other (please specify):	ile your child used media and technology at home (watching TV, usinetc.) without an adult? (Mark ALL that apply.) ooking, cleaning or paying bills) mes/apps separately from my child (on another device)
What were you doing TODAY whi computer, playing video games, o Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing ga Other (please specify):	ile your child used media and technology at home (watching TV, usinetc.) without an adult? (Mark ALL that apply.) ooking, cleaning or paying bills) mes/apps separately from my child (on another device)
What were you doing TODAY whi computer, playing video games, o Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing ga Other (please specify):	ile your child used media and technology at home (watching TV, usinetc.) without an adult? (Mark ALL that apply.) ooking, cleaning or paying bills) mes/apps separately from my child (on another device)
What were you doing TODAY whi computer, playing video games, o Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing ga Other (please specify):	ile your child used media and technology at home (watching TV, usinetc.) without an adult? (Mark ALL that apply.) ooking, cleaning or paying bills) mes/apps separately from my child (on another device)
What were you doing TODAY whi computer, playing video games, o Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing ga Other (please specify):	ile your child used media and technology at home (watching TV, usinetc.) without an adult? (Mark ALL that apply.) ooking, cleaning or paying bills) mes/apps separately from my child (on another device)
What were you doing TODAY whi computer, playing video games, o Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing ga Other (please specify):	ile your child used media and technology at home (watching TV, usinetc.) without an adult? (Mark ALL that apply.) ooking, cleaning or paying bills) mes/apps separately from my child (on another device)
What were you doing TODAY whi computer, playing video games, o Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing ga Other (please specify):	ile your child used media and technology at home (watching TV, usinetc.) without an adult? (Mark ALL that apply.) ooking, cleaning or paying bills) mes/apps separately from my child (on another device)
What were you doing TODAY whi computer, playing video games, o Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing ga Other (please specify):	ile your child used media and technology at home (watching TV, usinetc.) without an adult? (Mark ALL that apply.) ooking, cleaning or paying bills) mes/apps separately from my child (on another device)
What were you doing TODAY whi computer, playing video games, o Household chores or tasks (like co Caring for other children Working Talking with friends or family Watching TV/videos or playing ga Other (please specify):	ile your child used media and technology at home (watching TV, usinetc.) without an adult? (Mark ALL that apply.) ooking, cleaning or paying bills) mes/apps separately from my child (on another device)

WEEK 12		
Your name:	Today's date: (mon/day/y	Your relationship to child:
 Television Laptop or desktop computer Tablet (such as an iPad, Galax Video game system (such as a) 	y Tab, Nexus 7, Microsoft Surface, or n Xbox, PlayStation, or Wii) n can also use to send email, watch v	r Kindle Fire)
Please tell us a little bit about the	media that your child watched o	or played TODAY.
2a Television show(s)		
Number of minutes watched:	1 to 15 16 to 30 More th	nan 30 Did not watch (skip ahead to 2b)
Name of program(s) watched:		
Who did your child watch with? (Mark On his/her own With other kid With brother(s) or sister(s) With parent/caregiver Other	s (like friends or cousins)	How did your child feel about the resource? Fun/Interesting Boring Confusing Other:
2b Video(s) Number of minutes watched:	s (like friends or cousins)	han 30 Did not watch (skip ahead to 2c) How did your child feel about the resource? Fun/Interesting Boring Confusing Other:
	1 to 15 🗌 16 to 30 🗌 More tha	n 30 🗌 Did not play (skip ahead to 2d)
Name of game(s) played:		
Who did your child watch with? (Mark On his/her own With other kid With brother(s) or sister(s) With parent/caregiver Other	s (like friends or cousins)	How did your child feel about the resource?
2d Other media resource(s) Number of minutes used: 1	to 15 🗌 16 to 30 🗌 More than	30 Did not use (skip ahead to question 3)
Name of resource(s) used:		
Who did your child use them with? (N	s (like friends or cousins)	How did your child feel about the resource?
RTL 2014 Media Diary (C) Weeks 7 to 12	Page 12 of 14	

	Id use technology TODAY? (Mark ALL that apply.)
Other (please specify):	
My child did not use technology	today
Did you (or another adult caregi (Mark ALL that apply.)	iver) use technology with your child in any of the following ways TOD
Watched shows, movies, or vide	os with my child
Played digital games or apps wit	-
	fix technology problems for my child (for example, if the game "froze" or
the computer needed to be restant	arted)
	//game my child was watching/playing
— , ,	ked me about the show/game he or she was watching/playing
	shows/games my child was watching/playing and things we do in our daily life we made pancakes for breakfast, just like Curious George made pancakes).
If so, what connection did you ma	
Other (please specify):	
My child did not use technology	today with me or another adult caregiver
What were you doing TODAY w	today with me or another adult caregiver hile your child used media and technology at home (watching TV, usi
What were you doing TODAY wi computer, playing video games	hile your child used media and technology at home (watching TV, usi , etc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY w	hile your child used media and technology at home (watching TV, usi , etc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY we computer, playing video games	hile your child used media and technology at home (watching TV, usi , etc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY we computer, playing video games Household chores or tasks (like Caring for other children Working Talking with friends or family	hile your child used media and technology at home (watching TV, usi , etc.) without an adult? (Mark ALL that apply.) cooking, cleaning or paying bills)
What were you doing TODAY we computer, playing video games Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g	hile your child used media and technology at home (watching TV, usi , etc.) without an adult? (Mark ALL that apply.)
What were you doing TODAY we computer, playing video games Household chores or tasks (like Caring for other children Working Talking with friends or family	hile your child used media and technology at home (watching TV, usi , etc.) without an adult? (Mark ALL that apply.) cooking, cleaning or paying bills)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify):	hile your child used media and technology at home (watching TV, usi , etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) games/apps separately from my child (on another device)
What were you doing TODAY we computer, playing video games Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g	hile your child used media and technology at home (watching TV, usi , etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) games/apps separately from my child (on another device)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify): My child did not use media or tec This concludes your Media Di	hile your child used media and technology at home (watching TV, usi , etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) yames/apps separately from my child (on another device)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify): My child did not use media or tech	hile your child used media and technology at home (watching TV, usi , etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) yames/apps separately from my child (on another device)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify): My child did not use media or tec This concludes your Media Di	hile your child used media and technology at home (watching TV, usi , etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) yames/apps separately from my child (on another device)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify): My child did not use media or tec This concludes your Media Di	hile your child used media and technology at home (watching TV, usi , etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) yames/apps separately from my child (on another device)
What were you doing TODAY will computer, playing video games, Household chores or tasks (like Caring for other children Working Talking with friends or family Watching TV/videos or playing g Other (please specify): My child did not use media or tec This concludes your Media Di	hile your child used media and technology at home (watching TV, usi , etc.) without an adult? (<i>Mark ALL that apply.</i>) cooking, cleaning or paying bills) yames/apps separately from my child (on another device)

Region:		
Class:		
Center:		
RTL 2014 Media Diary (C) Weeks 7 to 12	Page 14 of 14	

Appendix U. Home Visit 1 Protocol

Home Visit Protocol – Visit 1

 Interviewer:

 Documenter:

 Child ID#:

 Home Visit # (1 or 2):

 Visit Date:

 Visit Start Time:

 Visit End Time:

 Family member(s) and relationship to the child

Note the space in which you are conducting the interview at the time you arrive. Include details such as:

- The layout of the room(s) in which you conduct the interview.
- The technology devices visible in the room.
- The presence of other people in the home.
- The presence of noise or other interview distractions.

Interview

When family members participating in the interview are ready, introduce yourself. If there are adults present who were not at the orientation, explain the study and have them sign a consent form. If there are children present who are not listed on the consent forms we have, make sure an adult who is present at the interview can consent for them. Other family members are welcome to be a part of the conversation; make sure it is clear that they may stay or leave as they please.

Some of the interview questions will be directed to caregivers, some will be directed to the child, and some will be appropriate for all family members who are present. Whenever possible and appropriate, elicit responses from each person present. For example, if a caregiver answers, follow up by asking the children or other family members if they have something to add. If there are children present who are too young to answer for themselves, ask the caregiver(s), "How about [Child's Name]?"

Rapport Questions

These questions are intended to establish rapport with each family member present and to establish the norm of inviting the participation of everyone present. When possible and appropriate, invite multiple people to respond to questions.

"Thank you for inviting us into your home. We really appreciate you taking the time to talk!"

A. How long have you lived here? What's your favorite thing about the neighborhood? B. What do you like to do for fun?

C. Who lives here with you?

If you already know, just ask another small-talk/warm-up question.

"For notetaking purposes we'd like to audio record this interview. Is that okay with you?"

Interview Questions

"We'd like to know about the technology you have in your home. First, we'll go through and ask what technology you have at home. Then we'll ask more specifically about how you all use each piece. We're asking about the whole family, but would especially like to know about the child(ren)."

1. Which of the following do you have at home?

- laptops (& PBS Kids laptop)
- *iPads or tablets (& PBS Kids tablet)*
- *digital devices for kids (e.g., LeapFrog)*
- smart phones

- TVs
- gaming systems
- *DVD players*
- desktop computers
- Anything else?

"Thank you! Now let's go through and talk a little about the ways in which you all use the technology you just mentioned. Starting with the _____."

2. Where do people in your family use _____? *Prompt: At home? At school? In the car? At the library? At daycare? Etc.*

laptops (& PBS Kids laptop)

iPads or tablets (& PBS Kids tablet)

digital devices for kids (LeapFrog)

smart phones

TVs

gaming systems

DVD players

desktop computers

Anything else?

3. What sort of things does your family use the _____

Prompt: Watching? Playing? Searching? Creating? Listening? Ask for specifics.

for?

laptops (& PBS Kids laptop)

iPads or tablets (& PBS Kids tablet)

digital devices for kids (LeapFrog)

smart phones

TVs

gaming systems

DVD players

desktop computers

Anything else?

4. How often does your family use _____ in your home?

Prompt: Do you (and/or child and/or other family members use it daily? weekly? How many hours per day? Time of day? Weekdays/weekends?

laptops (& PBS Kids laptop)

iPads or tablets (& PBS Kids tablet)

digital devices for kids (LeapFrog)

smart phones

TVs

gaming systems

DVD players

desktop computers

Anything else?

5. How does your family use the _____? Do people take turns using it, use it together...? Prompt: [We want an idea of how much is on their own, how much is with parents, how much is with siblings, etc.] Does CHILD talk about what s/he's doing while using the _____? After s/he uses it? Any examples?

laptops (& PBS Kids laptop) iPads or tablets (& PBS Kids tablet) digital devices for kids (LeapFrog) smart phones TVs gaming systems DVD players desktop computers Anything else?

Report to the CPB-PBS Ready To Learn Initiative 181

6. Is there anything CHILD does with the _____ that involves math? Prompt: Tell me about those shows/games. Do you think the show helps your child learn math? Any examples?

laptops (& PBS Kids laptop)

iPads or tablets (& PBS Kids tablet)

digital devices for kids (LeapFrog)

smart phones

TVs

gaming systems

DVD players

desktop computers

Anything else?

7. Is there anything CHILD does with the _____ that might teach about behavior?

Prompt: For example, sharing, trying hard, overcoming frustration, and taking initiative. Which shows? Do you think shows help teach those skills?

laptops (& PBS Kids laptop) iPads or tablets (& PBS Kids tablet) digital devices for kids (LeapFrog) smart phones TVs gaming systems DVD players desktop computers Anything else?

182 Supporting Parent-Child Experiences with PEG+CAT Early Math Concepts

8. Do you feel like CHILD is learning things from using the ____

Prompt: Math, reading, or science? Social (ATL) skills? Technology skills? Do you have any examples that show learning?

?

laptops (& PBS Kids laptop)

iPads or tablets (& PBS Kids tablet)

digital devices for kids (LeapFrog)

smart phones

TVs

gaming systems

DVD players

desktop computers

Anything else?

9. How much do you choose what CHILD watches/plays/does on the _____?

Prompt: Why did you choose it? Are there things you particularly like or dislike about it? Educational value? High interest?

laptops (& PBS Kids laptop)

iPads or tablets (& PBS Kids tablet)

digital devices for kids (LeapFrog)

smart phones

TVs

gaming systems

DVD players

desktop computers

Anything else?

Last question

10. Are there other things you and CHILD do at home that are about math? What about behavior?

Prompt: Counting, measuring, cooking? Games you play? Things you talk about? Does CHILD play math games that do not involve the use of technology?

<u>Wrap Up</u>

"Thank you so much for having us today. We really appreciate your taking the time to host us. We'll give you a call soon to schedule our second visit. We hope to come back during the week of January 12th and 19th.

During this visit, we did a lot of talking about technology. On our second visit, we're hoping you'll show us some of the media and technology we talked about today so that we can watch your family use it. Before our next visit, you may want to think about what you'd like us to see.

Call us with any questions or concerns. Thank you!!"

	Where do people in your family use (Locations, rooms in the home)	What sort of things does your family use the 	How often does your family use in your home? (Frequency)	How does your family use the ? For example, do people take turns using it or use it together? (Coviewing JEM)	Is there anything the child does with the	How much do you choose what your child watches/plays, does on the ? (Parent criteria for content)
Laptop computers (& PBS Kids Laptop)						
iPads or tablets (& PBS Kids Tablet)						
Digital devices for kids						
Smart phones						
TVs						
Gaming systems DVD players						
Desktop computers						
Other						
Other						
CHILD d	here other thin lo at home that /hat about beh	t are about		1	1	1

Appendix V. Home Visit 2 Protocol

Home Visit #2 Protocol

During this home visit, you will observe families engaged in a minimum of two media scenarios totaling roughly 45 minutes. Pick which 2-3 activities you would like to see your families engage in based on your notes from Visit 1.

- 1. In one scenario (15 minutes), the family engages with media in the way that they said during Home Visit 1 is most common/typical, or most preferred.
- 2. In the second scenario (15 minutes), we ask them to demonstrate something unique that they discussed during the first home visit (ex: they talked about how mom vs dad have different roles during media engagement, so suggest that we observe those individuals taking turns using media with the child in a way they normally do).
- 3. If treatment families do not choose P+C as a focal resource for either observation scenario, ask them to pick a Peg resource they use the most, or one that they like the best, and observe them use/watch it together (10-15 minutes).

If possible, when you call to confirm your home visit, suggest the scenarios we would like to see based on the first home visit. During the visit, if the family has other scenarios in mind, be open to observing those instead.

Roles:

- The **Documenter** will focus on capturing a *running record* of the home visit, including verbal and nonverbal interactions that take place among and between family members. Documenters will again be responsible for audio recording the visit.
- The **Lead Interviewer** should recommend the media resources they hope to observe families engage with, and explain why we chose those resources/scenarios. Additionally, the Lead Interviewer will *take notes in response to the questions* below as the family engages with the media resources.
- Both researchers must come to the home visit with a laptop for note taking.

Data Capture:

- The Lead Interviewer will take the first pass at thoroughly answering the questions on the data capture after the home visit, and send those responses to the Documenter.
- The Documenter will revise answers and copy and paste information from the running record (e.g., quotes, relevant sequences of interactions, fine-grained descriptions of behaviors) into the data capture.
- Notes and data capture should be submitted within 48 hours.

Tips for Observation:

- Tell caregivers ahead of time what you are hoping to observe.
- During the observation, put family members at ease by encouraging them to do what "comes naturally in the moment". Ensure they do not feel judged if things don't go as they hope.

When observing, sit at a comfortable distance from the family. You should be able to see what they are doing, without being intrusive.

Interviewer 1:

Interviewer 2:

Child ID#:

1.

0

Home Visit # (1 or 2):

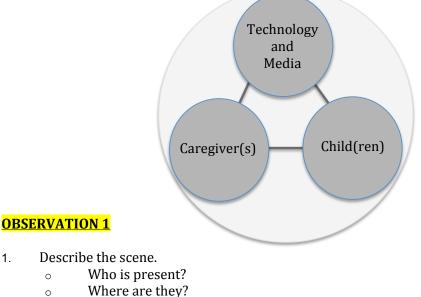
Observation Date:

Observation Start Time:

Observation End Time:

Adult(s) interviewed and relationship to the child

For each scenario, please answer the following questions



- 0 How are they configured? 0
- Describe the technology and media content. 2.
 - What device are they using? 0
 - What are they watching/doing/playing/reading? 0
 - Who chose the media and device? Why did they choose it? 0
 - Do they experience any tech problems? 0
- Describe interactions between the individuals using the resource. 3.
 - Who is leading the activity? 0
 - Is someone holding the technology? 0
 - Who is making decisions about navigation (when to go to the next screen, 0 pressing buttons; what part to watch; when to turn the page)

4. Describe the behaviors and interactions **<u>between the child and family member(s)</u>**.

- What caregiver behaviors do you observe? (e.g., asking the child questions, commenting on what she/he or the child is seeing/doing, interrupting/halting child's play).
- What verbal and nonverbal interactions take place between family members?
- 5. Describe the child's engagement **with the media**.
 - What are the child's physical behaviors during media engagement? (e.g., sitting still, moving around, attending to or looking away from the screen?)
 - Is there evidence that the child is connecting with the media resource or the characters? (e.g., laughing at jokes, talking to characters, singing along).
 - Are there times when the child or family members seem disengaged? When, and why do you think that is?
 - What seems to be the child's level of interest in engaging with family members versus engaging with the media?
- 6. [direct this question to the primary caregiver(s), and ask it after observing family members use each resource]What are your opinions of the resource we watched you use? What do you like about it? Why do you use it? Is there anything you don't like about it?
- 7. [ask this after observing family members use each resource] How is what we just observed similar and different from what typically goes on when you use these resources?
- 8. Are there other details, interactions, or behaviors that took place that you think are noteworthy, but do not fit into any question above? If so, please include that information from the running here (when necessary, provide context so it makes sense to the reader).

OBSERVATION 2

- 1. Describe the scene.
 - Who is present?
 - Where are they?
 - How are they configured?
- 2. Describe the technology and media content.
 - What device are they using?
 - What are they watching/doing/playing/reading?
 - Who chose the media and device? Why did they choose it?
 - Do they experience any tech problems?
- 3. Describe interactions between the individuals using the resource.
 - Who is leading the activity?
 - Is someone holding the technology?

- Who is making decisions about navigation (when to go to the next screen, pressing buttons; what part to watch; when to turn the page)
- 4. Describe the behaviors and interactions **between the child and family member(s)**.
 - What caregiver behaviors do you observe? (e.g., asking the child questions, commenting on what she/he or the child is seeing/doing, interrupting/halting child's play).
 - What verbal and nonverbal interactions take place between family members?
- 5. Describe the child's engagement **<u>with the media</u>**.
 - What are the child's physical behaviors during media engagement? (e.g., sitting still, moving around, attending to or looking away from the screen?)
 - Is there evidence that the child is connecting with the media resource or the characters? (e.g., laughing at jokes, talking to characters, singing along).
 - Are there times when the child or family members seem disengaged? When, and why do you think that is?
 - What seems to be the child's level of interest in engaging with family members versus engaging with the media?
- 6. [direct this question to the primary caregiver(s), and ask it after observing family members use each resource]What are your opinions of the resource we watched you use? What do you like about it? Why do you use it? Is there anything you don't like about it?
- 7. [ask this after observing family members use each resource] How is what we just observed similar and different from what typically goes on when you use these resources?
- 8. Are there other details, interactions, or behaviors that took place that you think are noteworthy, but do not fit into any question above? If so, please include that information from the running here (when necessary, provide context so it makes sense to the reader).

OBSERVATION 3

- 1. Describe the scene.
 - Who is present?
 - Where are they?
 - How are they configured?
- 2. Describe the technology and media content.
 - What device are they using?
 - What are they watching/doing/playing/reading?

- Who chose the media and device? Why did they choose it?
- Do they experience any tech problems?
- 3. Describe interactions between the individuals using the resource.
 - Who is leading the activity?
 - Is someone holding the technology?
 - Who is making decisions about navigation (when to go to the next screen, pressing buttons; what part to watch; when to turn the page)
- 4. Describe the behaviors and interactions **between the child and family member(s)**.
 - What caregiver behaviors do you observe? (e.g., asking the child questions, commenting on what she/he or the child is seeing/doing, interrupting/halting child's play).
 - What verbal and nonverbal interactions take place between family members?
- 5. Describe the child's engagement **with the media**.
 - What are the child's physical behaviors during media engagement? (e.g., sitting still, moving around, attending to or looking away from the screen?)
 - Is there evidence that the child is connecting with the media resource or the characters? (e.g., laughing at jokes, talking to characters, singing along).
 - Are there times when the child or family members seem disengaged? When, and why do you think that is?
 - What seems to be the child's level of interest in engaging with family members versus engaging with the media?
- 6. [direct this question to the primary caregiver(s), and ask it after observing family members use each resource]What are your opinions of the resource we watched you use? What do you like about it? Why do you use it? Is there anything you don't like about it?
- 7. [ask this after observing family members use each resource] How is what we just observed similar and different from what typically goes on when you use these resources?
- 8. Are there other details, interactions, or behaviors that took place that you think are noteworthy, but do not fit into any question above? If so, please include that information from the running here (when necessary, provide context so it makes sense to the reader).

Appendix W. Focus Group Protocol

RTL Home Study Y5 Focus Group Protocol

Parent Attitudes

- 1. Adult attitudes about the role of media to support learning
 - There are a lot of different ways that children can learn. Some say that children learn the most from school. Others say they learn the most from family or friends. Others say they learn the most from doing things like using the internet, watching TV, or playing games. How much do you think each of these things contributes to your child's learning?
 - What role does media play in your child's learning? [if needed to reset discussion]
 - Which of the shows, movies, videos, apps, or other media that your child watches or plays, if any, do you find educational? Why or why not?
 - What does your child say about the digital media that you find educational? [prompt: does your child like/dislike the games you consider "educational?"]
 - Do you think YOU have a role in highlighting the educational value of the media that your child engages with?

2. Adult attitudes about children's ATL

- How does your child respond when he/she confronts challenges in everyday life, such as when your child cannot solve a puzzle, has trouble with a game/toy, or cannot have what he/she wants?
- How do you think children learn how to deal with feelings like frustration? How do they learn to be persistent when something may seem difficult?
 - Do you see a role for media in teaching those behavior skills [use examples that parents just offered], like cooperating with others, trying hard when something is frustrating, etc.?

Media Use and Preferences

3. Tech context

- (PBS KIDS only) Does your child prefer to use the Chromebook or the tablet? Which of these devices do you prefer to use with your child? Why?
- (PBS KIDS only) How often have you visited the study website? On a single visit, did your child access more than one game or video from the study website?
- (BAU) Of the devices that you have in your home, which device does your child like using the most? Which device, if any, do you prefer to use with your child?
- (BAU) To what extent does your child (rather than you) choose what media (shows, apps, etc.) he/she watches or plays with?
- (BAU) How do you make decisions about what media (shows, apps) to put on the devices that your child uses?

Supporting Children's Media Use

- 4. (PBS KIDS only) **Use of family support materials**: We included some materials, like parent tip sheets and parent tip videos to help you watch the PEG+CAT videos and play the PEG+CAT games with your child.
 - Did you use any of those materials? What did you like and dislike about them? Did you return to them more than once?
 - What did you think about receiving the weekly text messages suggesting math activities to do with your child? Were the suggestions/tips helpful? Did you ever do any of the activities? [prompt: if so, which ones?] Would it have been better if they came at another time?
 - Do you think the PEG+CAT resources attempt to teach children how to cooperate with one another or how to deal with frustration? How helpful (or unhelpful) do you think these resources are in these ways?
 - (BAU only) Some parents find it difficult to help children learn from media. It's hard to know what things you should say to your child to help their learning from videos and games! What makes it so hard? Are there things that you do to help your child learn from media?
 [prompt: for example, some parents try to pause a video to ask their child a question, but some kids hate that!]
 - (BAU only) What might make it easier for you, or parents like you, to help children learn from media?

5. Joint Media Engagement

- Do you watch television or videos or play digital games with your child? What are you doing while you watch or play with them?
- Are there situations when you think your child learns more from using media alone, and situations when you think your child learns more from using media with you or others?

PEG+CAT

- 6. (PBS KIDS only) Child engagement while using resources
 - What does your child like about the PEG+CAT show and games?
 - What does your child dislike about the PEG+CAT show and games?
 - Does your child talk about what s/he sees in the videos and games, or include what he/she sees in their play? Can you think of an example?

Adherence to the Suggested Sequence

7. (PBS KIDS only) Challenges to using the study materials

- Did you follow along with the order of games and videos on the website, or did you and your child skip around?
- When you and your child did not use the resources in order, how did you decide what to watch or do next?
- Did your child decide what games and videos to use or did you?
- What were some of your child's favorite and least favorite pieces of media?

Education Development Center, Inc. | Center for Children and Technology

The Center for Children and Technology (CCT) is a unit of the Education Development Center, Inc., a nonprofit international research and development organization dedicated to improving the quality, effectiveness, and equity of education throughout the United States and in more than 35 countries. Since 1981, CCT has been at the forefront of creating and researching new ways to foster learning and to improve teaching through the development and thoughtful implementation of new educational technologies. CCT's work is centered in three areas: research, including basic, formative, and program evaluation; design and development of innovative technology prototypes and products; and the implementation and operation of large-scale technology integration efforts.

SRI International | Center for Technology in Learning

SRI International is an independent, nonprofit research institute conducting client-sponsored research and development for government agencies, commercial businesses, foundations, and other organizations. The mission of the Center for Technology in Learning (CTL) is to improve learning and teaching through innovation and inquiry. CTL research and development activities contribute to the knowledge base of effective learning and teaching and embody research insights in the innovative design, use, and assessment of interactive learning environments. In its development, research, and evaluation work, CTL seeks to create tools that lead to better teaching and learning, to develop assessments and conduct evaluations that contribute to the evidence base about the effectiveness and conditions for success of technology-supported innovations, and to inform both the policy and research communities.

Principal Investigators

Shelley Pasnik

sp@edc.org

Carlin Llorente carlin.llorente@sri.com

Support Provided By



The contents of this document were developed under a cooperative agreement from the U.S. Department of Education (Award Number U295A1005). However, these contents do not necessarily represent the policy of the U.S. Department of Education and you should not assume endorsement by the Federal Government.