The Early Literacy at Preschool Education: The Book or the E-Book?

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ABSTRACT
Educational technology is commonly used. The use of technology at preschool education has an important role with a lot of effective methods so that children can learn. Preschool teachers use the technology to support children’s development. Early literacy skills have gained more importance especially in the recent years. As a result, the use of technology has been necessary to develop early literacy skills. Based on dialog, interactive book reading is an important activity to give children the opportunity for them to develop their early literacy skills. It was found in the previous studies, that the literacy skills of the children; for whom reading books based on dialogue by teachers or families, were at a better level. In this study, the previous studies related to E-book interactive book reading are gathered and it aims to introduce based on dialogue E-book to families and teachers and makes some proposals to support the early literacy skills through based on dialogue E-book. Besides, by studying the related literature, developing early skills to reading E-book or reading book were compared and the results were argued.

Keywords: Technology, Preschool Education, Early Literacy, E-Book at Preschool Educations.

INTRODUCTION
Early childhood period has a critical importance for the development of emergent literacy skills. Emergent literacy skills have a significant impact on the child’s literacy performance in primary school years as well as overall academic success. Thus, emergent literacy should be adopted by preschool teachers, and should be included frequently in in-class activities. In addition to this, the families should be informed about this topic and encouraged to demonstrate and support their children’s emergent literacy activities at home. Also, studies that will increase attention, interest, and motivation should not be ignored. Emergent literacy practices appropriate to children’s age and developmental attention levels should be included in the program (Yalçıntaş-Sezgin & Ulus, 2017).

One of the most important contributions to educational research in recent years is the link between reading studies with early childhood education. Until 25 years ago, reading and writing education was not accepted or even should not be accepted. However, studies on emergent literacy emphasize the importance of early years, especially preschool period, for the development of future literacy fundamentals. Although there is a widespread understanding of the importance of early reading learning experiences in children, contradictory opinions exist about reading studies in preschool period. The lack of understanding of the concept of early reading is one of the reasons for these contradictory views. Technically, literacy means reading and writing correctly. But emergent literacy, reading and writing skills, is a continuing process until the beginning of the basic education that begins to develop from the moment the child is born. Moreover, skills that are assumed to be developmental determinants or pioneer of reading and writing is also defined as knowledge and behavior (Yalçıntaş-Sezgin & Ulus, 2017).

THE DEVELOPMENT OF COMPUTER TECHNOLOGY AND THE USE OF E-BOOKS
In the preschool period it is important that the adult and the child has reading and writing activities together which supports significantly the early literacy skills of the child and it should be thought that reading book is one of the most important activities (Sénéchal & LeFevre, 2002). However most of the children nowadays are exposed intensely to digital social media by various of technological tools (Hisrich & Blanchard, 2009). As a result of exposure of technology the children have a lot of opportunities to observe and explore it and play with it. The children are most commonly exposed to electronic books which are E-books (Ihmeideh, 2014). With the help of E-book, the fun story reading activity with adults are able to be done individually. Studies show that this is a considerable activity for the early literacy of young children to evolve/develop. In the following parts this is explained in detail.

Computer technology is promising to support the early literacy skills of children in a creative and innovative way not only for normal-developing children, but also for the children with learning impairment risks. Before computer
technology the first early literacy skills develop during experience of reading done by adult and the child together (Bus, van Ijzendoorn, & Pellegrini, 1995).

WHAT IS E-BOOK?
E-book is a text that is transformed from words, pictures and shapes that are in computer file format to digital form (Rao, 2003, p. 86). What differs E-book from traditional book are the sound/audio, (e.g. music or verbalism/expression/audio etc…) visibility (e.g. movement etc…) and etc. Besides in the E-book there are features that children can enjoy, like a motion picture with the text, shapes, audio expression (listening the story) and listening the text...

Another explanation is so; E-book is a form of interactive story(expression) that has multimedia effects for children between 3-8 years old and it is named as ‘a living book, talking book or CD-ROM stories’ and includes a written text, mouth reading, mouth talking, music, noise effects and motion pictures, shapes. This interactivity enables children to carefully follow the written text, sentence and paragraphs that is vocalized and so they understand the insider of the text. In this way they interact with the book, understand the words and the letters, enrich their vocabulary, improve their reading comprehension skills and increase their motivation to read (Segers & Verhoeven, 2002; Glasgow,1996-1997; Matthew, 1996; Reinking, 1997; Smith, 2001).

There is a new, thriving fashion in the recent years that to have the digital versions of books in the classes of young children (Unsworth, 2006). The International Reading Association (2009) emphasizes the importance of merging the technologies including digital books like E-book with current programs. Because when the literature is examined it is come through that the E-book supports and helps to improve reading and comprehension skills (De Jong & Bus, 2004; Gong & Levy, 2009; Maynard & McKnight, 2001; Moody, 2010; Verhallen & Bus,2010; Zucker, Moody, & McKenna, 2009). At the same time E-book is used effectively for the children with reading difficulties and for the children who are at the initial phase of reading (Zucker et al., 2009). According to Moody (2010) digital reading materials increase children to be included in the stories apart from supporting early literacy and Moody also suggests that this is quite important in the early childhood.

Because of many unique features, E-books provide a lot of opportunities. For instance; pictures, motion shapes and figures and pictures help children to understand the definitions and concepts of words. The letters in alphabet stressed and pointed out and this supports phonological awareness (Doty, Popplewell, & Byers, 2001; Moody, 2010; Wood, Pillinger, & Jackson, 2010).

READING AN E-BOOK OR A TRADITIONAL BOOK?
When the literature is examined there are a lot of researches about reading an E-book or a traditional book. First of all it would be beneficial to point out the differences between an E-book and a printed out book. The difference is; E-book includes motion pictures, verbalism/expression and different audio. Mentioned advanced features of E-book result in high reading and writing improvement and less success differences (Ihmeideh, 2014). Printed books are important for the improvement of children’s reading and writing skills, however they lack some of the features E-book has.

Both in school and at home reading and writing skills are assisted/supported extensively with technological tools. Likewise, a well designed E-book comparing to traditional books help children better to improve their phonological decoding skills, vocabulary and to understand the meaning of words (Verhallen, Bus, &de Jong, 2006; Segers, Verhoeven, 2003). Increasing the utilization of E-books more than traditional books help children to experience a qualitative privilege of reading.

Today young children read the written-printed books with the adults, at the same time they can read the E-books individually without the help of adults. E-books are becoming more and more common. While reading an E-book, motivation and enjoyment of kids are higher at reading and listening (Greenlee-Moore & Smith, 1996).

E-books have a lot of advantages for children. When children read or listen E-books, they get to choose the story they like, they can listen the story and they can interactively join the story events (Takacs, Swart, Bus, 2015). E-books include motion pictures, wireless access area, sounds and activities. They also include written texts that change their color itself following the oral story for children to follow up easier (De Jong & Bus, 2002).

E-books provide children a personalized reading support. Children can read individually and they can take up on themselves the learning (Matthew, 1996). E-books have the potential to encourage and support children with features that traditional books do not have (Huffstetter, King, Onwuegbuzie, Schneider & Powell-Smith, 2010; Bus, Takacs & Kegel, 2014). Having the pictures and the content with motion make the E-books more fun. Unlike in traditional books children can set the speed of reading themselves. However, a disadvantage of E-books for children is that without having a skilled reader with them, they will have difficulties to understand unfamiliar words (McKenna, 1998).

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A research about the efficiency and the worth of E-books to improve reading and writing, for instance, for preschool children and for children who just start school show that for children to recognize the words with the help of E-books is promising (Miller, Blackstock, & Miller, 1994; De Jong & Bus, 2002; Lewin, 2000). It is also found that the E-books support the improvement of phonological awareness of children (Cheria & Wood, 2003; Wise Olson, Annsett, Andrews, et al. 1989). Cheer and Wood, carried out the reading activity with E-book for 4 weeks with preschool children who are 3-6 years old and found out that their phonological awareness were more improved than the children from the control group. Besides, their verbal skills got better after using electronic story book (Lewin, 2000; Segers & Verhoven, 2002). E-books in headstart kindergartens show that reading and writing skills of children were improved (Talley, 1994).

Korat (2010) studied in a research the language and reading/writing skills of Israeli children after reading electronic story books. The E-book research were applied to preschool children. To compare the first grade children were taken in the research. In every ages children were randomly separated to two groups; 5 times E-book read intervention group and a control group that goes school regularly. The evaluation of reading the word is done as pretest and final test. In final test they evaluate if the children can understand and explain the story. Children who read E-book showed a promising improvement in understanding and reading the word comparing to control group. Preschool children in same
way showed better improvement in reading more words than first grade intervention group. Apart from that, preschool children showed a good improvement in understanding the story (Koran & Shamir, 2007) concluded similar results. E-book was found as an effective tool to understand the story.

The families should be educated about the usage of E-book and its different mechanism to have a successful interaction with their children. Peneu et al. (2009) found in the researches that, the families who support E-book usage claim that the phonologic awareness, recognition of letters, language, reading comprehension, and creating words and early literacy etc. such skills of their children are improved. Likewise, Shamir and Korat (2006) applied the study of story books in CD-ROOMS to children of low economic level and middle economic level families. In pre- and final-tests, comprehension & recognition of the word and phonologic awareness were tested. To conclude, both in low economic level and middle economic level children show improvement after this educational E-book application. Apart from that children of low economic level showed even better improvement than in middle economic level. E-book can overcome the learning barriers of low economic level children (Shamir&Korat, 2006). Even if the features of E-book result in less family interaction, they can minimize the success differences. E-books motivate the children to read. Because the E-book is multi-dimensioned featured and that is why it can help children who are behind their comperees/fellows overcome learning barriers (Shamir & Korat, 2006).

**CONCLUSION AND DISCUSSION**

In this research/paper, reading an E-book and reading a book in the early ages of children is compared by examining the literature. It is concluded that children who read stories in E-books or children who read individually improve their reading and writing skills better than the children of other control groups. Especially, writing awareness, recognition of the word, reading the word and vocabulary showed improvements. (Shamir, & Korat,2007; Korat & Shamir, 2007; Verhallen, Bus, &de Jong, 2006; Segers, Verhoeven, 2003; Korat, 2010, Korat & Drori, 2016).

Apart from that the E-book supports the early literacy in young children, it also motivates children to read books, helps their concentration because they have to listen during the story read in a period of time and helps to understand the story. Children at these ages like to read books with the adults or listen however they also like to observe the book individually. E-book gives children the opportunity to be independent.

New developed features of E-books offer better qualities in motion, sound, brightness and vividness. All of these new improvements enable children to listen and watch the stories without getting bored. In most of the traditional books there aren’t motion pictures and drawings. Young children like to look at motion pictures. That is why these features of E-book help children to spend more time with E-books. Improvement of early literacy skills in young children required motivation and interest and it is supported with E-books.

Digital tools (e.e computer disk) make it easier the use of E-books, however with the improvement of technology the touchscreen tablet apps (downloadable software programs designed for mobile devices e.g., literacy, gaming, and e-book apps; Neumann, 2014) are used by families, teachers and children. And young children can also use them individually (Thank, 2011). Bloodgoog (1999) states that some 3-4 years old children who have small muscle capabilities have the ability to write their names and alphabet. That is why touchscreen can be an alternative tool to children who are at the different stage of writing skills. Because in the stories children draw from up on the letters inside the words. This let the children to experience drawing. This important experience is not present.

To summarize the advantages of E-books; with E-books children learn the new words that are stressed out when the sound in E-book reads the story. There are games and pictures that help children to understand the story (Segal-Drori, Korat, & Klein, 2013; Shamir, Korat & Fellah, 2012). When compared to classical printed books, kids can spend more time with their families. People with growth retardation can also favor from E-books. (Moody, Justice& Cabell, 2010; Shamir, Korat & Fellah, 2012; Parish-Morris, Mahajan, Hirsh-Pasek, Michnick Golinkoff & Fuller Collins, 2013). The Children can read the E-book over and over. Reading the same story over and over increase their reading skills. Children by themselves can enjoy reading the E-book alone (Salmon, 2014). This can liberate children and gets children more keen on reading. E-books are useful and accessible (Salmon, 2014). Families and teachers can download to their computers, laptops and iPads. This easy access gets families choose the reading activity without distinction of place (e.g. metro, auto-bus etc.). Children learn better when they read with adults (Drori, Korat, & Klein, 2013; Moody, Justice& Cabell, 2010). That is why the adults are required to increase the reading activities with E-books rather than classical books.

E-book stories should have more advanced features and their numbers should be increased in every language and families at home, teachers at school should benefit from E-books to support children’s early literacy skills. The children can do the reading activities with E-books alone as well as with their parents. Because young children may require the guidance of adults. Various and advanced features of E-books should be introduced to parents and E-book’s frequency should be increased. Pre-school teachers should also benefit from the attractive and impressive features of E-books.
They can benefit from the E-books in such a way that the reading activity could be done with E-books so that it becomes more fun. Especially E-books can be made use of supporting the early literacy skills of children with special needs such as developmental retardation and difficulty in reading.

REFERENCES


