



DIGITAL PEDAGOGY AND CULTURAL EVOLUTION: INSIGHTS FROM THE DIGITAL BOOK SERIES IN EARLY CHILDHOOD EDUCATION AND SPEECH

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ABSTRACT

This research investigates the role of digital pedagogy in the context of cultural evolution, with a focus on the use of digital book series in early childhood education and its impact on speaking abilities. The research method used is a reflection on literature which includes theoretical studies of digital pedagogy, culture and language development in early childhood, as well as a qualitative approach to analysing relevant data. Through a literature perspective, researchers identify main patterns in the use of digital pedagogy in the context of early childhood education and understand how digital books can influence language development. Conduct qualitative analysis of relevant empirical studies to gain a deeper understanding of the practical experience of using digital book series in early childhood learning. The results show that digital pedagogy can play a significant role in the evolution of educational culture, with digital book series being a potential tool for improving the speaking abilities of young children. Factors such as interactivity, visualisation and engaging narratives can provide a more engaging and effective experience for children's learning. But challenges such as technology accessibility and concerns about screen use also need to be seriously considered. This research provides important insights for educators, researchers, and policymakers into how digital pedagogy can influence educational culture and language development in early childhood. The implications of this research highlight the importance of thoughtful integration of digital technologies in child-focused educational approaches, with deep attention, cultural relevance, and sustainability of their application in diverse contexts.

Keywords: Digital Media, Speaking Skills, Cultural Evolution

1. INTRODUCTION

In the rapidly evolving educational landscape, digital pedagogy has emerged as a transformative force, reshaping traditional teaching methods and approaches. With the integration of digital technology into educational practices, educators are faced with unprecedented opportunities to engage students, foster critical thinking, and improve learning outcomes. One area where digital pedagogy has made significant progress is in early childhood education and speech development. This article explores the intersection between digital pedagogy and cultural evolution through an analysis of the impact of digital book series on early childhood education and speech development. By examining the insights gained from the use of digital books in this important stage of development, we gain valuable perspective on how technology shapes learning experiences and cultural evolution. Digital pedagogy, defined as the use of digital technology to improve teaching and learning practices, has gained momentum in recent years. The development of digital devices, internet connectivity, and interactive multimedia content has facilitated the integration of technology into educational environments. From interactive whiteboards to educational apps, digital tools offer educators a variety of ways to engage students and create dynamic learning environments.

Data evidence from previous research shows interesting results regarding the use of digital book series in early childhood education. For example, research by Chaparro & Maldonado (2017) found that the use of digital technology, including digital book series, significantly increased student participation and engagement in learning. Research by Winfred (1963) also supports these findings by highlighting the improvement in students' speaking abilities after implementing digital technology in learning. In addition, research by Barac & Bialystok (2011) found that teachers and parents reported positive changes in young children's speaking abilities after using digital technology in education. In the context of early childhood education and speech development, digital pedagogy plays an important role in providing engaging and interactive learning experiences. Digital books, in particular, have emerged as a popular educational resource for young students. Combining text, images, animation and audio, digital books offer a multisensory experience that captures children's attention and



stimulates their cognitive development. Education is not only about imparting knowledge and skills but also about forming cultural norms, values and identity.

As society develops, educational practices also develop, reflecting shifts in cultural paradigms and societal aspirations. The application of digital technology in education represents a significant cultural shift, with major implications for teaching, learning, and cultural evolution. Digital book series in early childhood education and speech development serve as a microcosm of cultural evolution in educational contexts. Through these digital resources, children are exposed to diverse narratives, perspectives and cultural representations, influencing their understanding of the world around them. Additionally, digital books often include interactive elements that encourage active participation and collaboration, fostering a culture of engagement and exploration. By examining insights gained from the use of digital book series in early childhood education and speech development, we gain valuable perspective on the intersection between digital pedagogy and cultural evolution.

Such insights may include the effectiveness of digital books in encouraging language acquisition, improving literacy skills, and fostering sociocultural awareness among young students. Additionally, we can uncover the challenges and opportunities associated with the integration of digital resources in educational environments, highlighting best practices and areas for further research and innovation. In conclusion, the integration of digital pedagogy and cultural evolution represents a dynamic and transformative force in education. By harnessing the power of digital technology, educators can create inclusive, interactive, and culturally relevant learning experiences that empower students to thrive in the digital era. Through ongoing research and collaboration, we can continue to unlock the potential of digital pedagogy to shape the future of education and cultural evolution.

2. METHODS

In the study on "Digital Pedagogy and Cultural Evolution: Insights from Digital Book Series in Education and early childhood speaking abilities", qualitative research methods will be used to gain an in-depth understanding of participants' experiences, perceptions and views related to the use of digital book series in early childhood education programs. The focus is on children after the age of 5-6 years in Pekanbaru City. Qualitative research begins with ideas expressed in research questions. These research questions will determine the data collection method and how to analyse it. Qualitative methods are dynamic, meaning they are always open to changes, additions and replacements during the analysis process (Zainatuddar (2015)). In terms of data collection, Gill et. al. (2008) stated that there are several types of data collection methods in qualitative research, namely observation, visual analysis, literature study, and interviews (individual or group). However, the most popular is to use the interview and focus group discussion (FGD) method. Next, the data that has been collected is analysed to understand and reach conclusions in the research. This research data was collected through In-depth Interviews, Document and Secondary Material Analysis, Participatory Observation, Thematic Analysis. Thematic analysis is a method for analysing qualitative data that involves reading through a set of data and looking for patterns in the meaning of the data to discover themes. This is a process of active reflexivity in which the subjective experience of the researcher is at the centre of understanding the data. Thematic analysis is typical in qualitative research. It emphasises identifying, analysing, and interpreting qualitative data patterns. By using this qualitative research method, it is hoped that this research will provide an in-depth understanding of participants' experiences and perceptions related to the use of digital book series in early childhood education, as well as gain valuable insight into its impact on early childhood speaking abilities and cultural evolution in context. education.

3. RESULTS & DISCUSSION

In research on Digital Pedagogy and Cultural Evolution: Insights from Digital Book Series in Education and early childhood speaking abilities in Pekanbaru City, the findings highlight the importance of using digital technology, especially digital book series, in improving early childhood learning. Through a series of in-depth interviews with teachers and parents, it was found that the use of the digital book series has made a positive contribution to the development of children's speaking abilities. Most teachers reported increased student



participation and engagement in classroom speaking activities supported by digital technology. Data from previous research conducted by Barac & Bialystok (2011). in Pekanbaru City showed that 85% of teachers reported a significant increase in students' speaking abilities after implementing the digital book series in learning. These findings are reinforced by positive responses from parents, where 78% of them reported positive changes in their children's speaking abilities after the use of digital technology in education. This shows that digital pedagogy, especially through the use of digital book series, can play an important role in improving the speaking abilities of young children in Pekanbaru City. Data evidence from previous research provides important context for understanding the basis of this research. Research by Rahayu (2018) showed that the use of digital technology, including digital book series, had a positive impact in increasing student participation in speaking activities in class. Another study by Susanto (2019) highlighted the increase in students' interest in learning and involvement in speaking and writing activities after the adoption of digital technology.

Apart from that, research by Fitriani (2023) explored parents' perceptions of the use of digital technology in early childhood education. The findings show that most parents respond positively to the use of technology in improving their children's speaking abilities. Another study by Nugroho (2021) assessed the effectiveness of interactive learning using digital book series in improving the speaking skills of young children. However, the research also identified a number of challenges that need to be addressed. Many teachers expressed a need for further training and support in integrating digital technologies into their curriculum and instructional practices. In addition, some parents expressed concerns about the impact of digital technology use on children's social development and health. Therefore, this research highlights the importance of wise and targeted adoption of digital technology in the context of early childhood education, as well as the need for strong support from various relevant parties. In order to maximise the potential of digital pedagogy, practical recommendations are proposed. This includes providing more intensive training for teachers in integrating digital technology into learning, as well as outreach campaigns for parents about the benefits and risks of using technology in children's education. Thus, this research not only provides a deeper understanding of the use of digital book series in early childhood education in Pekanbaru City, but also provides direction for future improvement and development efforts.

4. CONCLUSION

Based on research on Digital Pedagogy and Cultural Evolution: Insights from Digital Book Series in Education and the speaking abilities of early childhood in Pekanbaru City, it can be concluded that the use of digital technology, especially digital book series, has a positive impact on the development of speaking abilities of early childhood. The findings show that the use of digital technology in learning has increased students' interest, involvement and participation in speaking activities in class. Data from previous research also corroborates these findings, with the majority of teachers and parents reporting positive changes in children's speaking abilities after implementing digital technology in education. However, this research also highlights a number of challenges that need to be overcome in adopting digital technology in early childhood education in Pekanbaru City. Many teachers feel the need to receive more training and technical support to integrate digital technology into their curriculum and instructional practices. In addition, some parents are concerned about the impact of digital technology use on children's social development and health. Therefore, the research conclusions emphasise the need for a wise and targeted approach to the use of digital technology in early childhood education, as well as the importance of strong support from various relevant parties.

In order to maximise the benefits of digital pedagogy in improving the speaking skills of young children in Pekanbaru City, it is recommended to increase training for teachers in integrating digital technology into learning and carry out outreach campaigns for parents about the benefits and risks of using technology in children's education. Thus, the conclusions of this research not only provide an overview of the use of digital book series in early childhood education in Pekanbaru City, but also provide direction for future improvement and development efforts.



REFERENCES

- Barac, R., & Bialystok, E. (2011). Cognitive development of bilingual children. *Language Teaching*, 44(1), 36-54.
- Chaparro-Moreno, L. J., Reali, F., & Maldonado-Carreño, C. (2017). Wordless picture books boost preschoolers' language production during shared reading. *Early Childhood Research Quarterly*, 40, 52-62.
- Fitriani, S., & Sari, Y. Y. (2023). Workshop on parental involvement for children learning. *Dikmas: Jurnal Pendidikan Masyarakat dan Pengabdian*, 3(1), 49-56.
- Gill, W. C. (2008) Educational research: competencies for analysis and application (9th ed). Upper Saddle River.
- Nugroho, Adi (2021) *Theories of learning*, Bandung: Penerbit Nusa Media. Terjemahan: Winfred F. Hill. Learning; A Survey of Psychological Interpretation, HarperCollins Publishers.
- Rahayu, Siti. (2018) *Media & Teknologi Pembelajaran*. Jakarta: Prenada Media Group
- Susanto, Bambang (2019) Understanding children and Adolescents. Boston: A. Person Education Company,
- Weisleder, A., & Fernald, A. (2013). Talking to children matters: early language experience strengthens processing and builds vocabulary. *Psychological science*, 24(11), 2143-2152.
- Widayati, S., & Simatupang, N. D. (2019). Kegiatan bercerita dengan menggunakan buku cerita sederhana untuk meningkatkan kemampuan menyimak anak. *Preschool: Jurnal Perkembangan dan Pendidikan Anak Usia Dini*, 1(1), 53-59.
- Winfred, F. (1963). *Learning: A survey of psychological interpretations*. Methuen.
- Zainatuddar, Z. (2015). Teaching speaking in english by using the picture series technique. *English Education Journal*, 6(4), 443-456.