

The Role of Radiant Storytelling in Developing Children's Memory and Information Retention

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ABSTRAK

Penelitian ini membahas peran storytelling berseri dalam mengembangkan daya ingat dan retensi informasi anak usia dini. Storytelling berseri merupakan metode pembelajaran yang menghadirkan cerita secara berkesinambungan, sehingga anak terdorong untuk mengingat, memahami, dan mengaitkan informasi dengan pengalaman sebelumnya. Penelitian ini menggunakan pendekatan kualitatif dengan metode library research, menelaah literatur terkait strategi pembelajaran, psikologi kognitif anak, dan penerapan storytelling dalam PAUD. Hasil kajian menunjukkan bahwa storytelling berseri memiliki beberapa peran penting, yaitu: meningkatkan memori jangka pendek dan panjang, menumbuhkan minat dan motivasi belajar, mengasah kemampuan bahasa dan pemahaman cerita, serta mendorong kreativitas dan imajinasi anak. Dengan penerapan yang tepat, metode ini mampu memperkuat keterampilan kognitif, sosial, dan emosional anak secara holistik. Storytelling berseri menjadi strategi efektif yang memadukan hiburan dan pembelajaran, sehingga anak dapat belajar secara menyenangkan dan berkesinambungan. Penelitian ini memberikan implikasi penting bagi pendidik dalam merancang kegiatan belajar yang menstimulasi daya ingat, retensi informasi, dan pengembangan potensi anak secara optimal.

ABSTRACT

This study examines the role of serial storytelling in enhancing memory and information retention in early childhood. Serial storytelling is a learning method that presents stories continuously, encouraging children to remember, understand, and connect information with prior experiences. This research uses a qualitative approach through library research, reviewing literature on learning strategies, child cognitive psychology, and the implementation of storytelling in early childhood education. The findings indicate that serial storytelling plays several important roles, namely: improving short-term and long-term memory, fostering interest and motivation to learn, enhancing language skills and story comprehension, and stimulating creativity and imagination. When applied appropriately, this method strengthens children's cognitive, social, and emotional skills holistically. Serial storytelling becomes an effective strategy that combines entertainment and learning, allowing children to learn in a fun and continuous manner. This study provides important implications for educators in designing learning activities that stimulate memory, information retention, and optimal child development.

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INTRODUCTION

Early childhood education emphasizes the development of various aspects of child growth, including cognitive, social, emotional, and language skills (Likhar et al., 2022). One important cognitive ability that should be developed from an early age is memory and information retention. Memory enables children to store, recall, and utilize information obtained from their surroundings. Information retention is crucial so that the knowledge acquired can last longer and be applied in different situations (Cecilio-Fernandes et al., 2018; Lysne & Miller, 2017; Sanz & Hovell, 2021). In this context, learning methods that are engaging, interactive, and contextual are key to success. One method considered effective is storytelling, as it can connect abstract concepts with children's concrete experiences. Storytelling also helps children understand the story's sequence, recognize characters, and relate new information to prior knowledge. With the appropriate approach, storytelling can become a fun and meaningful learning tool.

Serial storytelling, which involves telling a story in consecutive sessions with connected narratives, offers additional benefits compared to one-time storytelling. Children are encouraged to follow a developing storyline, prompting them to remember characters, events, and messages from previous sessions (MOHD et al., 2024). This process naturally trains both short-term and long-term memory. Additionally, serial storytelling stimulates children's imagination and creativity, as they anticipate the continuation of the story before hearing it. This method not only enhances cognitive abilities but also fosters reading interest and active listening. Teachers act as facilitators, adjusting language and story delivery to match children's developmental levels. Thus, serial storytelling becomes a fun yet effective learning approach to support early childhood cognitive development.

However, in practice, many early childhood education institutions have yet to fully utilize serial storytelling. Children often struggle to remember information delivered through a single storytelling session. The lack of variety and continuity in storytelling methods results in underdeveloped memory and information retention (Dhote & Kumar, 2019). Some teachers also lack the skills to craft engaging serial storylines that are relevant to children's experiences. Furthermore, media and supporting tools for storytelling are often limited, making the activity less interactive. These issues impact children's ability to recall and reproduce learned information. Therefore, innovative and sustainable learning strategies are needed to optimize children's cognitive potential. Serial storytelling emerges as a promising solution to address these challenges.

The study conducted by Faria, Salles, and Pereira (2024) highlights that storytelling plays a significant role in enhancing children's language, cognitive abilities, and memory. Their findings indicate that engaging children in narrative activities not only strengthens information retention

but also supports overall developmental skills in early childhood (Faria et al., 2024). The study conducted by Ghaderi, Yarahmadi, and Ghavami (2017) demonstrates that storytelling is effective in improving the auditory memory of students with reading disabilities. Their findings suggest that incorporating narrative activities can enhance memory retention and support learning outcomes for children facing reading challenges (Ghaderi et al., 2017).

Based on previous research, there is a lack of development in serial storytelling integrated systematically into early childhood learning strategies. Many studies only emphasize the general benefits of storytelling without investigating how story continuity specifically affects memory and information retention. Additionally, the context of local early childhood institutions, children's characteristics, and teachers' roles in managing serial storytelling have rarely been analyzed in depth. Therefore, this study introduces novelty by exploring the structured and continuous role of serial storytelling. It also emphasizes the effect of serial storytelling on short-term and long-term memory in early childhood. The results are expected to provide practical guidance for early childhood teachers in designing more effective storytelling activities focused on cognitive development.

This study aims to analyze the role of serial storytelling in developing memory and information retention in early childhood. Specifically, it seeks to understand how story continuity affects children's ability to remember and retain information. The study also aims to explore teacher strategies in managing serial storytelling to make storytelling sessions interactive and enjoyable. Additionally, it examines the influence of serial storytelling on children's learning motivation and engagement during learning activities. The findings are expected to provide practical guidance for early childhood educators in designing effective storytelling methods. Thus, this study contributes not only to early childhood learning theory but also offers real-world applications in early childhood institutions, supporting improved learning quality and optimal cognitive development.

METHOD

This study employs a qualitative approach using a library research method or literature review (Nugrahani & Hum, 2014). This approach was chosen because the study aims to analyze theories, concepts, and findings from previous research related to serial storytelling and its impact on memory and information retention in early childhood. Data were collected from various literature sources, including books, scientific journals, articles, and research reports relevant to early childhood education, storytelling methods, and experience-based learning. The data collection process was conducted systematically by selecting credible and up-to-date sources to ensure that the analysis reflects the most current scientific findings (Wijaya, 2020). Subsequently, the data were analyzed descriptively and qualitatively to identify patterns, relationships, and

principles that support the development of memory and information retention through serial storytelling. With this approach, the study focuses on gaining in-depth understanding of effective learning strategies rather than mere quantitative measurement.

In practice, the literature analysis was conducted through structured steps, including collection, recording, classification, and synthesis of information from various sources. First, relevant literature was identified based on theme, keywords, and relevance to the research questions. Second, the data were analyzed to identify the core concepts of serial storytelling, mechanisms for enhancing memory, and strategies for information retention in early childhood. Third, the analysis results were compared with findings from previous research to identify similarities, differences, and potential areas for developing learning strategies (Mamik, 2015). Finally, the synthesized literature findings were used to formulate practical implications for teachers and early childhood education institutions in designing effective serial storytelling activities. Thus, this qualitative library research method enables the study to generate deep theoretical and practical insights into the role of serial storytelling in early childhood education.

RESULT AND DISCUSSION

Children's Memory and Information Retention

Children's memory is a cognitive ability that enables them to store, recall, and use information obtained from their surroundings (Hill et al., 2015). In early childhood, memory develops gradually, starting from the ability to remember simple events to more complex information. Biological, emotional, and environmental factors influence the quality of a child's memory. A rich, interactive, and enjoyable environment can help children retain information more effectively. Memory is also related to a child's ability to recognize patterns, associate experiences, and understand new concepts. Repeated and contextual learning processes support the strengthening of both short-term and long-term memory. Therefore, appropriate learning strategies are key to optimizing memory development in young children from an early age.

Information retention refers to a child's ability to maintain learned information so it can be recalled and applied in the future. In early childhood, information retention can be categorized into short-term and long-term memory. Short-term memory allows children to temporarily remember information, such as story sequences or simple instructions. Long-term memory, on the other hand, stores information for extended periods, enabling connections with future experiences or learning. Retention is influenced by factors such as motivation, interest, and the relevance of information to the child's daily life. Interactive, enjoyable, and experience-based activities can enhance information retention. By understanding the types of retention, teachers can design more effective learning strategies tailored to children's cognitive needs.

Several internal and external factors influence a child's ability to remember and retain information. Internal factors include attention span, interest, emotions, health, and physical condition. Children who are focused and motivated tend to remember information more easily. External factors include the learning environment, teaching methods, instructional media, and interactions with teachers and peers. A supportive environment, such as a safe and enjoyable classroom, can improve memory quality. The use of active learning strategies, such as play, experimentation, and storytelling, also helps reinforce memory. Understanding these factors allows educators to adapt teaching approaches so that children can effectively remember and retain information.

Teachers play a crucial role in helping children develop memory and information retention (Shaheen et al., 2024). They can use various strategies, such as storytelling, demonstrations, educational games, and exploratory activities, to make information easier to remember. Providing repetition, variation, and relevant context can also strengthen retention. Additionally, teachers need to monitor children's understanding and interest to ensure that strategies are effectively applied. Child-centered approaches increase engagement and motivation, leading to better memory outcomes. Integrating visual, auditory, and hands-on experiences further enriches memory stimulation. With appropriate strategies, children can develop their cognitive abilities continuously and effectively.

Memory and information retention are crucial aspects of success in early childhood education. The ability to remember and retain information affects how children understand concepts, follow instructions, and connect new experiences with prior knowledge. Children with strong memory and retention skills are better able to think critically, solve problems, and learn independently. In the context of early childhood education, effective learning strategies, such as serial storytelling, outdoor learning, and exploratory activities, can enhance both aspects. Strengthening memory and retention also prepares children to face subsequent learning stages with greater confidence. Therefore, attention to developing children's memory and information retention is a priority in early childhood education to achieve optimal learning outcomes.

The Role of Radiant Storytelling in Developing Children's Memory and Information Retention

Serial storytelling is a learning method that plays an important role in early childhood education, as it naturally stimulates memory and enhances information retention (Hasan et al., 2025). By presenting continuous and engaging stories, children are encouraged to pay attention, remember, and connect each event within the story's sequence. This method not only provides entertainment but also fosters active engagement in the learning process, enabling children to develop their cognitive abilities optimally. Additionally, serial storytelling helps children build habits of focus, concentration, and critical thinking from an early age. Through story repetition

and continuity, children learn to remember details, understand moral messages, and associate new information with prior experiences. Thus, serial storytelling becomes a crucial strategy in early childhood education that combines learning, entertainment, and holistic memory development.

1. Enhancing Short-Term and Long-Term Memory

Serial storytelling helps children gradually develop both short-term and long-term memory. By listening to continuous stories, children learn to remember the sequence of events and characters in the narrative. This process stimulates the brain's ability to store information systematically, enabling children to recall information more easily. Short-term memory is trained through repeated storytelling, while long-term memory develops due to the continuity of stories across sessions. This activity also encourages children to associate new information with prior knowledge, strengthening cognitive networks. Teachers can incorporate questions and discussions about previous stories to test children's memory. In this way, serial storytelling becomes an effective means to enhance the ability to remember information consistently. Furthermore, children become accustomed to repetition and consistency, which are essential for building stable memory.

Repetition in serial storytelling provides a consistent context, making it easier for children to remember key details. As children follow a series of stories, they are encouraged to recall previous events in order to understand the next part of the narrative. This trains their cognitive ability to organize information chronologically. Teachers can use visual aids or puppets to strengthen memory retention. Children familiar with this method tend to show improved recall abilities, meaning they can retrieve previously presented information more effectively. Serial storytelling also helps distinguish important information from minor details, making retention more efficient. With regular practice, children learn to store information in a structured way and apply it in different contexts. This demonstrates that serial storytelling is not only enjoyable but also strategic in fostering children's memory development.

Additionally, serial storytelling encourages children to remember and predict what happens next, making their memory more active. The ability to anticipate the continuation of a story keeps children focused and reinforces the connection between short-term and long-term memory. Children become participatory as they try to recall past events to comprehend upcoming parts of the story. Active engagement naturally enhances information retention without causing pressure or boredom. Teachers can introduce small quizzes or open-ended questions related to previous stories to further sharpen memory skills. This activity helps develop early critical thinking patterns. Therefore, serial storytelling is a method that

supports the development of robust memory while also improving overall information retention in children.

2. Increasing Children's Interest and Learning Motivation

Serial storytelling stimulates children's interest and motivation to learn through engaging and continuous learning experiences. Children tend to be enthusiastic about following stories with a continuous plot due to their curiosity about what happens next. This motivation encourages them to focus more on listening and remembering key information. Enjoyable activities increase active participation, so children are not simply passive recipients of information. Teachers can use voice modulation, gestures, and visual aids to make the story more vivid. This way, children feel valued and are eager to continue learning. High interest in learning also positively affects their ability to recall information more effectively. Serial storytelling, therefore, is not only entertaining but also fosters sustained enthusiasm for learning.

Children's motivation increases because they want to know the next part of the story (McGeown et al., 2020). This curiosity makes it easier for them to remember details from previous stories. Children will try to retell what they remember, reinforcing their memory in the process. Teachers can invite children to discuss or redraw scenes from the story to enhance interaction and information retention. This activity fosters curiosity while improving memory skills. Through serial storytelling, children learn to pay attention to the sequence of events and understand the moral messages in stories. Consistent learning interest also encourages participation in other educational activities. Thus, serial storytelling is an effective strategy that combines entertainment with cognitive learning.

Beyond increasing motivation, serial storytelling also teaches children to manage attention and focus during learning activities. Improved focus directly affects their ability to remember information. Actively engaged children mentally review stories, ask questions about unclear points, and attempt to predict the ending. Teachers can use these moments to strengthen information retention through reflection or questioning. High levels of interest and motivation make children more receptive to new information and help store it in memory. Therefore, serial storytelling not only develops cognitive abilities but also cultivates positive learning habits from an early age.

3. Enhancing Language Skills and Story Comprehension

Serial storytelling plays a crucial role in developing children's language abilities while enhancing their understanding of storylines. By listening to continuous stories, children learn to recognize new vocabulary, sentence structures, and ways to express ideas coherently. The repetition of words and sentences in serial stories strengthens children's memory of the language used, improving vocabulary retention. Moreover, children are trained to understand

cause-and-effect relationships within the story, boosting their logical and analytical thinking skills. Teachers can include open-ended questions about characters or events to prompt reflection, deepening story comprehension. This process encourages children to link language with real-life experiences, strengthening both cognitive and verbal networks. Thus, serial storytelling is not only entertaining but also an effective tool for language development in early childhood.

Language skills developed through serial storytelling also enhance children's communication and self-expression abilities (Hibbin, 2016). Children are encouraged to retell parts of the story, express the feelings of characters, or predict the next events. These activities train children to construct sentences, use vocabulary accurately, and articulate thoughts clearly. Interaction with teachers and peers during storytelling sessions further strengthens social and collaborative skills. With repeated practice, children can more easily remember new vocabulary and its contextual usage, reinforcing information retention. Enhanced language abilities also help children follow instructions, engage in learning activities, and express ideas in everyday situations. This demonstrates that serial storytelling significantly contributes to children's language and cognitive development.

Beyond language development, serial storytelling fosters a deeper understanding of moral lessons and values embedded in stories. Children learn to remember characters, actions, and consequences, enabling them to distinguish between positive and negative behaviors. This process also strengthens their ability to interpret information, make generalizations, and relate stories to personal experiences. Teachers can emphasize key story elements through discussions or reflective activities, further extending information retention. In this way, serial storytelling helps children store knowledge meaningfully rather than merely memorizing facts. Children learn to recall relevant information and apply it in daily life contexts. Consequently, serial storytelling is an effective method for enhancing both information retention and the development of cognitive and moral values in children.

4. Stimulating Creativity and Imagination

Serial storytelling also plays a key role in fostering children's creativity and imagination (Lena Sari Silaban et al., 2024). By following a continuous narrative, children are encouraged to visualize characters, settings, and events within the story. This imaginative process helps them build mental visualizations, which in turn strengthens memory for story information. Teachers can facilitate follow-up activities such as drawing story scenes, making character puppets, or role-playing to stimulate creativity. These creative activities allow children to connect verbal information with sensory experiences, enhancing information retention. Through active engagement in storytelling, children learn to express ideas, solve

problems, and think creatively. Serial storytelling thus bridges imagination and comprehension, making learning both enjoyable and effective.

In addition to fostering imagination, serial storytelling encourages children to generate new ideas and innovate in understanding the story. Children may predict the story's continuation, create alternative endings, or develop new characters according to their imagination. This creative process activates divergent and flexible thinking, which is vital for cognitive development in early childhood. Teachers can guide children to express creativity through group discussions or small projects related to the story. These activities not only enhance memory retention but also build children's confidence in presenting their ideas. Children learn to link new information with creative thinking, resulting in more comprehensive retention.

Furthermore, creativity developed through serial storytelling enhances children's problem-solving and adaptability skills. When children imagine different scenarios or alternative storylines, they learn to seek solutions and think critically. This activity trains children to remember story details while applying imagination to solve "challenges" in the narrative. Teachers can provide additional tasks, such as creating their own endings or drawing favorite scenes, to further stimulate the creative process. Thus, serial storytelling not only strengthens memory and information retention but also cultivates creative and adaptive thinking skills, which are essential for holistic child development.

CONCLUSION

Serial storytelling plays a highly strategic role in developing memory and information retention in early childhood. This method not only strengthens short-term and long-term memory through repetition and story continuity but also fosters children's interest, motivation, and active engagement in the learning process. Furthermore, serial storytelling sharpens language skills, enhances story comprehension, instills moral values, and stimulates creativity and imagination. Children learn to connect new information with prior experiences, organize ideas critically, and express themselves with greater confidence. When applied effectively, serial storytelling can develop cognitive, social, and emotional skills holistically, making it an engaging, effective, and sustainable learning strategy in early childhood education.

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