



Exploring Early Childhood Linguistic Intelligence Through English Language Learning Methods

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ARTICLE INFO	ABSTRACT
Received: 2024-09-12 Revised: 2024-11-27 Accepted: 2024-12-06 Keywords: Cognitive Development; Early Childhood Education; English Language Acquisition; Interactive Learning Methods; Linguistic Intelligence	This study investigates the effectiveness of interactive learning methods; playing, singing, and storytelling in enhancing linguistic intelligence among early childhood learners in English language settings. Adopting a qualitative case study approach, data were collected through classroom observations, semi-structured interviews with teachers and parents, and field notes. The findings reveal that interactive methods significantly improve children's engagement, vocabulary acquisition, and ability to construct simple sentences. Activities such as singing and storytelling not only boost verbal responses but also build children's confidence in using English both in and outside the classroom. Parents observed enhanced communication skills and self-confidence at home. Additionally, these methods contributed to cognitive development, fostering critical thinking and creativity. The study concludes that interactive English learning activities are instrumental in fostering linguistic intelligence in early childhood while providing a strong foundation for future academic and communication skills. Recommendations for integrating these methods into preschool curricula are provided, highlighting their potential for global adaptation in early language education.

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INTRODUCTION

Language acquisition during early childhood represents a critical developmental window with profound implications for cognitive and communicative competence. In the contemporary globalized context, English language proficiency has emerged as a fundamental skill that extends beyond mere communication, encompassing cognitive, social, and academic advantages (Hulstijn et al., 2014; Isma et al., 2023, 2024; Malykhin et al., 2024; Sung & Akhtar, 2017). The early childhood period, characterized by exceptional neural plasticity and linguistic receptivity, presents a unique opportunity for introducing foreign language learning in ways that are developmentally appropriate and cognitively stimulating.

Existing research in developmental linguistics and early childhood education has consistently highlighted the significance of interactive, engaging learning approaches. Mavrelou & Daradoumis (2020) demonstrated that multisensory pedagogical strategies can significantly enhance language acquisition, while Philominraj et al. (2018) emphasized the interconnectedness between experiential learning and linguistic intelligence. Furthermore, neuroeducational studies have revealed that early multilingual exposure can strengthen neural connections, potentially improving cognitive flexibility and problem-solving capabilities (Al-Zoubi, 2024; Al Muhaidib, 2011; Amaliah et al., 2024).

Despite the growing body of research, significant gaps remain in understanding the most effective methodologies for introducing English to young learners, particularly in diverse cultural contexts like Indonesia. Previous studies have predominantly focused on isolated linguistic skills or generic learning strategies, without comprehensively examining how interactive methods specifically contribute to linguistic intelligence development. Moreover, research in the Indonesian educational landscape has been limited, creating a substantial knowledge gap regarding culturally relevant and developmentally appropriate English language learning approaches for early childhood.



Gardner's theory of multiple intelligences provides a theoretical framework suggesting that linguistic intelligence is not a monolithic construct but a complex interplay of cognitive, communicative, and social abilities (Gardner, 2011). This perspective underscores the need for nuanced, holistic approaches to language learning that transcend traditional rote memorization techniques. By integrating play, storytelling, and musical activities, educators can potentially create more comprehensive and engaging language learning environments.

This study aims to explore the effectiveness of interactive English language learning methods in developing linguistic intelligence among early childhood learners aged 5-6 years. Specifically, the research seeks to: (1) examine how playing, singing, and storytelling influence children's verbal responses and vocabulary acquisition, (2) analyze the impact of these methods on simple sentence construction skills, and (3) investigate the relationship between interactive learning approaches and children's communication confidence.

The research contributes to the field by providing empirical insights into culturally contextualized, developmentally aligned English language learning strategies. By systematically documenting the linguistic progression of young learners engaged in interactive learning environments, this study offers valuable guidance for educators, curriculum designers, and policymakers. Furthermore, the findings extend our understanding of how playful, multimodal approaches can serve as powerful pedagogical tools in early language education.

The significance of this research extends beyond immediate language acquisition goals. By illuminating the complex interplay between interactive learning methods and linguistic intelligence development, the study offers a nuanced perspective on early childhood education. The potential implications include enhanced pedagogical approaches, more effective curriculum design, and a deeper comprehension of how young children construct linguistic competence in a supportive, engaging environment.

METHODS

This study employed a qualitative research design utilizing a case study approach to comprehensively explore the impact of interactive English language learning methods on early childhood linguistic intelligence. The case study methodology was specifically chosen to provide an in-depth, contextually rich examination of language development processes, aligned with interpretive research paradigms that emphasize understanding complex social phenomena through detailed, contextual analysis (Acocella, 2021; Yin, 2018). The research design was underpinned by Gardner's theory of multiple intelligences and sociocultural learning theories, which emphasize the importance of interactive, meaningful learning experiences in cognitive development.

The research was conducted in a purposively selected preschool located in an urban area of Deliserdang, Indonesia, with established quality educational infrastructure. The purposive sampling technique allowed for deliberate selection of participants who could provide rich, nuanced insights into the research questions. The participant cohort comprised 10 children aged 5-6 years, 5 preschool English teachers, and 5 parents actively engaged in their children's linguistic development. Inclusion criteria for child participants included: (a) enrollment in the preschool's English language program, (b) no prior diagnosed language or cognitive developmental challenges, and (c) parental consent for research participation.

Multiple data collection instruments were employed to ensure comprehensive and triangulated data:

1. **Observational Protocol:** A structured observation framework was developed to systematically document children's linguistic behaviors during English learning activities. The protocol captured detailed qualitative data on verbal responses, sentence construction attempts, vocabulary usage, and participation levels in interactive learning contexts.
2. **Semi-Structured Interviews:** Interview guides were meticulously designed for both teachers and parents, incorporating open-ended questions that encouraged detailed narrative responses. These interviews aimed to explore perceptions of learning methods, children's linguistic progression, and observed communication confidence.
3. **Field Note Documentation:** Comprehensive field notes were maintained to capture contextual nuances, non-verbal interactions, and emergent themes not readily captured by structured observation or interview protocols.

The research followed a systematic, ethical data collection process:

1. **Preliminary Stage:** Formal research permissions were obtained from the preschool administration, and informed consent was secured from parents. An initial orientation session was conducted to familiarize participants with the research process.

2. **Observation Phase:** Researchers conducted multiple observation sessions across various English learning activities, ensuring comprehensive coverage of different interactive learning methods such as singing, storytelling, and play-based learning. Each observation session lasted approximately 45-60 minutes and was carefully documented.
3. **Interview Phase:** Following observational data collection, semi-structured interviews were conducted with teachers and parents. These interviews were audio-recorded with participant consent, allowing for detailed later analysis and ensuring accurate representation of participants' perspectives.

A rigorous thematic analysis approach was employed, following Clarke and Braun (2017) six-phase framework:

1. **Familiarization with Data:** Researchers extensively reviewed observational notes, interview transcripts, and field documentation.
2. **Initial Coding Generation:** Systematic line-by-line coding to identify preliminary patterns and conceptual themes related to linguistic intelligence development.
3. **Theme Development:** Identifying broader thematic patterns that capture significant aspects of interactive English language learning experiences.
4. **Theme Refinement:** Critically examining and validating emergent themes through continuous cross-referencing and discussion among research team members.
5. **Theme Definition and Naming:** Precisely defining and labeling themes to reflect their core essence and theoretical significance.
6. **Comprehensive Reporting:** Synthesizing themes into a coherent narrative that addresses research objectives.

FINDINGS

Children's Verbal Responses During English Lessons

Observations show that interactive teaching methods, such as playing, singing, and storytelling, effectively increase children's engagement and motivation to speak English. Children show enthusiasm in repeating taught words or phrases and attempt to use new vocabulary in simple contexts. Their verbal responses also improve when learning activities use themes that are interesting and relevant to their daily lives, such as animal names, colors, and numbers.

1. **Singing with Simple Words**
When teachers introduce simple songs like "Head, Shoulders, Knees, and Toes," children quickly follow along and repeat the words in the song. After a few repetitions, they can recite these words without assistance, helping them remember body parts in English. For example, after a singing session, a child might point to their head and say, "This is my head."
2. **Color and Number Identification Games**
The teacher conducts a game where children are asked to find objects matching a color or number called out in English, such as "Find something red." Children eagerly search for red items, saying "Red, red!" or "This is red." When asked, "How many apples?" while showing three apples, they respond, "Three apples." This activity enhances their understanding of vocabulary related to colors and numbers.
3. **Storytelling with Animal Pictures**
With animal pictures, teachers introduce the names of animals in English. Children are encouraged to repeat these words and create simple sentences, like "I see a cat." They often say these words when they see similar animals around them, like pointing at a cat and saying "Cat!"
4. **Simple Conversations with Teachers and Friends**
Children begin to show willingness to engage in simple conversations in English, such as answering, "My name is Ali" when asked, "What is your name?" Other questions, like "How old are you?" are answered with "I am five years old," fostering their courage to speak English.

Vocabulary Development and Simple Sentence Construction Skills

Interviews with teachers and observations indicate that learning through singing and play is effective for enriching children's vocabulary. Within a few months, children begin recognizing basic English words and constructing simple sentences such as "I like cat" or "This is red," aligning with simple English sentence structures.

1. Vocabulary Development Through Singing Activities

Simple songs with basic words help children recognize essential vocabulary. For example, "Twinkle, Twinkle, Little Star" introduces words like "star," "sky," and "diamond." After a few practice sessions, they can construct simple sentences such as "I see a star."

2. Vocabulary Enrichment Through Object Recognition Games

The teacher uses games to introduce object names. When seeing a red object, children learn to say "red" and form sentences like "This is red." This game reinforces their understanding of new vocabulary.

3. Constructing Simple Sentences with Animal Words

With pictures of animals like "cat" or "dog," children construct simple sentences like "I like cat," helping them understand word usage in basic sentences.

4. Storytelling Activities to Practice Sentence Structure

In storytelling activities with pictures or dolls, children say sentences like "This is an apple" or "I like banana." This helps them practice the structure of basic sentences in English.

5. Interaction in Simple Conversations

Children practice responding to questions in simple conversations, like "What color do you like?" They answer, "I like blue," enhancing their ability to communicate in a real context.

Participation and Confidence in Communication

Interviews with parents reveal that children taught with interactive methods are more confident in trying to speak English, both at school and at home. They more frequently use words or phrases learned in class and attempt to speak English without fear of making mistakes.

1. Spontaneous Conversations with Parents

Parents report that children often try to speak using vocabulary learned in class, such as "This is my doll" when showing their doll. This response shows they feel confident practicing a new language outside the classroom.

2. Greeting Friends in English

Children begin greeting their friends in English with simple phrases like "Hello!" or "Good morning!" They also use phrases like "Thank you" and "Please," showing comfort in using English daily.

3. Trying to Tell Stories About Activities

Children tell their parents about their daily activities in simple English, such as "I play with my friend." This indicates that they are not only learning words but also starting to put them into meaningful sentences.

4. Courage to Answer Questions

Children enthusiastically answer questions like "What color do you like?" with "I like blue," without hesitation or fear of mistakes, indicating a boost in confidence.

5. Using English While Playing

While playing, children use English words or phrases, like pointing to a yellow toy and saying, "This is yellow." This shows their comfort and confidence in communicating in English.

DISCUSSION

The exploration of interactive English language learning methods for early childhood linguistic development reveals profound insights into pedagogical approaches that transcend traditional language instruction. This study's comprehensive investigation provides a nuanced understanding of how play-based, interactive learning strategies can fundamentally transform language acquisition processes for young learners. The primary findings demonstrate that interactive learning methods, including playing, singing, and storytelling, significantly enhance linguistic intelligence among children aged 5-6 years. Specifically, the research uncovered three critical dimensions of linguistic development: (1) remarkable improvements in verbal responses and vocabulary acquisition, (2) enhanced ability to construct simple sentence structures, and (3) substantial growth in communication confidence. These findings align with and extend previous research by scholars such as Sung and Akhtar (2017), who emphasized the importance of diverse linguistic experiences in early childhood education.

Comparative analysis with existing literature reveals both convergent and novel insights. Melisa and Halim (2021) study on linguistic intelligence development through storytelling demonstrated similar positive outcomes, particularly in vocabulary recognition. However, our research provides a more comprehensive examination by integrating multiple interactive methods and exploring their collective impact. Tanfidiyah and

Utama (2019) research on storytelling methods similarly highlighted vocabulary development, but our study offers a more nuanced understanding of how different interactive approaches contribute to linguistic intelligence holistically. The findings resonate strongly with Gardner's multiple intelligences theory, particularly the linguistic intelligence domain. By creating engaging, multimodal learning environments, educators can effectively stimulate language development beyond traditional rote learning techniques. The research substantiates Philominraj et al. (2018) assertion about the interconnectedness of experience and intelligence in language teaching, demonstrating how interactive methods create meaningful learning contexts that facilitate deeper linguistic comprehension.

Practically, the study offers significant implications for early childhood education professionals. Educational institutions can redesign language learning curricula to incorporate more interactive, play-based methodologies. Teachers can be trained to develop skills in creating engaging, multisensory learning experiences that simultaneously entertain and educate young learners. Policymakers might consider these findings when developing early childhood language education guidelines, emphasizing holistic, interactive approaches over traditional instructional methods. However, the research is not without limitations. The sample size of 10 children from a single urban preschool in Indonesia constrains the generalizability of findings. Future research should employ larger, more diverse samples across different geographical and socioeconomic contexts. Additionally, longitudinal studies could provide deeper insights into the long-term linguistic development impacts of these interactive learning methods.

Furthermore, while the study demonstrates significant positive outcomes, it also highlights the need for individualized approaches. Not all children may respond identically to interactive learning methods, suggesting that flexible, adaptable pedagogical strategies are crucial. Researchers and educators must continue exploring how different learning styles and individual cognitive variations interact with interactive language learning techniques. The theoretical contribution extends beyond immediate language acquisition, offering a complex understanding of how playful, engaging learning environments can foster cognitive and communicative development. By documenting the intricate processes of linguistic intelligence development, this research provides a valuable framework for understanding early childhood language learning as a dynamic, multifaceted process.

CONCLUSIONS

Interactive, activity-based English learning methods have demonstrated remarkable effectiveness in developing linguistic intelligence among young children. This research provides compelling evidence that playing, singing, and storytelling are not merely engaging activities but powerful pedagogical tools that fundamentally transform language learning experiences in early childhood education. The study's key findings reveal that interactive methods significantly enhance children's linguistic capabilities across multiple dimensions. Children exhibited remarkable improvements in verbal responses, vocabulary acquisition, and sentence construction skills. Moreover, these methods proved instrumental in building communication confidence, enabling children to engage with English more naturally and spontaneously. Beyond linguistic development, the research highlighted the broader cognitive benefits of these interactive approaches. Children engaged in these learning methods demonstrated enhanced critical thinking, creativity, and problem-solving skills. By creating enjoyable, low-pressure learning environments, educators can stimulate linguistic intelligence while simultaneously supporting overall cognitive development.

The findings carry substantial implications for early childhood education practices. They underscore the importance of moving beyond traditional, instructional language teaching methods towards more dynamic, interactive, and child-centered approaches. Educational institutions, teachers, and policymakers can leverage these insights to design more effective language learning curricula that align with children's natural learning processes. Theoretically, the study contributes to our understanding of linguistic intelligence development by demonstrating how multisensory, playful learning experiences can serve as powerful cognitive stimuli. It provides empirical support for theories emphasizing the interconnectedness of experience, intelligence, and language acquisition. While the research offers promising insights, it also acknowledges the need for continued exploration. Future studies should investigate these methods across diverse educational contexts, develop more sophisticated assessment tools, and explore individual variations in language learning experiences. In essence, this research reaffirms that early childhood language learning should be viewed as a holistic, enjoyable journey of discovery, not a mechanical process of instruction. By embracing interactive, engaging methods, we can unlock children's immense linguistic potential and prepare them for a globally interconnected world.

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