



TECHNOLOGY INTEGRATION TO TEACH EFL YOUNG LEARNERS RECEPTIVE SKILLS IN BILINGUAL EDUCATION CONTEXT

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Abstract:

This study investigates the integration of technology in English as a Foreign Language (EFL) instruction for young learners within bilingual education contexts, focusing on receptive skills development. Through qualitative research methods, including interviews and document analysis, the study examines the impact of digital tools, such as LearningApps, on reading and listening skills acquisition. Findings reveal the transformative potential of technology integration in creating dynamic and engaging learning environments that cater to the diverse needs of digitally-native learners. While challenges such as connectivity issues persist, educators demonstrate resilience and creativity in overcoming obstacles. The study contributes to the existing literature by addressing the gap in research on technology integration in bilingual education settings and offering practical insights for educators and policymakers. Ultimately, the findings emphasize the importance of adapting pedagogical practices to harness the full potential of technology and empower students to thrive in an interconnected, technologically-driven world.

Keywords: bilingual education, digital tools, English as Foreign language (EFL), receptive skills, technology integration

INTRODUCTION

This study aims to investigate the integration of technology in the learning of English as a foreign language (EFL) for young students with a focus on receptive skills, listening and reading, in the context of bilingual education. In recent years, the landscape of language learning has been

reshaped by the pervasive integration of technology, marking a profound shift in traditional pedagogical approaches (Yusop & Razak, 2020). This transformation has not only revolutionized teaching methods but has also ushered in a new era of learning experiences, brimming with innovative opportunities for educators to enrich their students' language acquisition journey. Within the domain of English as a Foreign Language (EFL) instruction, technological advancements have emerged as powerful catalysts, propelling the field towards more dynamic and interactive learning environments (Mimi, 2018). These advancements hold particular significance for young learners, whose evolving cognitive capacities and digital fluency are ripe for exploration and engagement. By harnessing the potential of technology, educators can tailor learning experiences to suit the diverse needs and learning styles of their students, fostering a sense of inclusivity and empowerment in the language learning process (Lai et al., 2016). Whether through interactive multimedia platforms, gamified learning applications, or virtual reality simulations, technology offers a plethora of tools and resources to captivate young learners' interest and deepen their understanding of the English language. Moreover, the integration of technology facilitates personalized learning experiences, allowing students to progress at their own pace and receive immediate feedback, thereby enhancing their motivation and confidence (Zheng et al., 2022). In essence, the integration of technology into EFL instruction not only augments traditional teaching methods but also paves the way for a more dynamic and student-centered approach to language learning, one that is tailored to the evolving needs and aspirations of today's digital-native learners.

Bilingual education has emerged as a pivotal approach in contemporary educational discourse, heralded for its potential to unlock cognitive advantages and elevate academic attainment through multilingualism. At its core, bilingual education transcends mere language instruction, encompassing the holistic integration of academic content delivered in two languages (Mbirimi-Hungwe & McCabe, 2020). This pedagogical framework not only cultivates linguistic fluency but also nurtures cognitive flexibility, metalinguistic awareness, and cross-cultural competence among learners. As educators increasingly recognize the cognitive and socio-cultural benefits of bilingualism, the momentum behind bilingual education continues to swell. Within this burgeoning landscape, the fusion of technology with bilingual pedagogy emerges as a potent catalyst for transformative learning experiences (Chen et al., 2022). Technology, with its vast array of digital tools and resources, offers a dynamic platform to augment language acquisition and proficiency, particularly in receptive skills such as listening and reading. Through interactive multimedia materials, educational software applications, and immersive digital environments, technology enriches language learning experiences, catering to diverse learning styles and fostering engagement (Class, 2023). By harnessing the power of technology within the bilingual education paradigm, educators can unlock new avenues for linguistic exploration, cultural exchange, and academic excellence, empowering learners to thrive in an increasingly interconnected global society.

The receptive skills of listening and reading serve as foundational pillars in the journey of language acquisition, playing a pivotal role in fostering effective communication and comprehensive comprehension abilities (Arrasyid et al., 2023). In the traditional classroom landscape, however, the methods employed to teach these essential skills often lean towards passive learning approaches. Such methods, while time-tested, often fail to ignite the spark of engagement necessary to captivate the attention of young learners fully. In a world characterized by constant stimuli and rapid technological advancement, the challenge lies in adapting teaching methodologies to meet the evolving needs and expectations of digitally-native students (Wang & Cheng, 2021). Passive learning, with its emphasis on rote memorization and static content delivery,

may struggle to resonate with the dynamic and interactive learning experiences that modern learners crave. Consequently, there exists a pressing need to explore innovative avenues that leverage technology to infuse vitality and dynamism into the process of receptive skills acquisition. By embracing technology as a catalyst for active engagement and meaningful interaction, educators can unlock new realms of learning possibilities, empowering students to navigate the complexities of language acquisition with confidence and enthusiasm.

Technology serves as a versatile toolset poised to tackle the inherent complexities of teaching receptive skills to young learners of English as a Foreign Language (EFL) within the dynamic landscape of bilingual education. Through the integration of digital platforms, interactive multimedia resources, and educational software applications, educators can unlock a plethora of opportunities tailored to meet the diverse needs of students. One of the foremost advantages lies in the provision of personalized learning experiences, where technology enables the adaptation of content and pacing to suit individual learning styles and preferences (Mangundu, 2023). Whether through interactive exercises tailored to different proficiency levels or adaptive learning algorithms that adjust difficulty based on student performance, technology empowers educators to tailor instruction to each learner's unique needs. Moreover, the immediacy of feedback facilitated by technology accelerates the learning process, allowing students to receive timely guidance and reinforcement, thus enhancing comprehension and retention. Additionally, technology facilitates authentic language practice by immersing students in real-world contexts through multimedia resources such as videos, podcasts, and interactive simulations (Chen, 2022). By engaging with authentic materials, students not only develop their receptive skills but also gain exposure to diverse linguistic contexts, enriching their language proficiency. In essence, the integration of technology into EFL instruction within bilingual education contexts offers a multifaceted approach that fosters personalized learning, immediate feedback, and authentic language practice, thereby empowering young learners to navigate the complexities of language acquisition with confidence and proficiency.

The integration of technology in language learning has heralded a new era of immersive and dynamic educational experiences, particularly beneficial for young learners in bilingual education contexts. By harnessing the power of digital tools, educators can create learning environments that transcend traditional classroom boundaries, offering students opportunities to engage with authentic language materials in simulated real-life scenarios (O'Connor et al., 2023). One such innovative approach is the utilization of virtual reality (VR), which immerses learners in virtual environments where they can interact with native speakers, navigate everyday situations, and experience language in authentic contexts. This immersive experience not only enhances language comprehension but also cultivates cultural understanding and empathy. Furthermore, gamification techniques leverage the inherent appeal of games to motivate and incentivize language practice, transforming mundane learning tasks into engaging challenges. Through gamified activities, students are encouraged to actively participate, compete, and collaborate, thus fostering a positive attitude towards language learning (Rosa-Castillo et al., 2023). Additionally, multimedia storytelling platforms provide avenues for creative expression and meaningful language engagement. By incorporating multimedia elements such as videos, audio clips, and interactive visuals, educators can captivate students' interest and stimulate their imagination, making language learning both enjoyable and effective. Overall, the integration of virtual reality, gamification, and multimedia storytelling represents a paradigm shift in EFL instruction, offering unparalleled opportunities for students to develop receptive skills in a dynamic, immersive, and engaging learning environment.

In the dynamic landscape of language education, the integration of technology has emerged as a promising avenue for enhancing learning experiences, particularly in the realm of English as a Foreign Language (EFL) instruction for young learners within bilingual education settings (Shafiee et al., 2022). Despite the recognized potential benefits of incorporating technology into language learning environments, a noticeable gap persists in the literature regarding both its effectiveness and practical implementation strategies. This void underscores the critical need for empirical research to comprehensively investigate the impact of technology integration on the receptive skills development of young EFL learners within the context of bilingual education. Through this study, we aim to bridge this gap by delving into the multifaceted intersection of technology, language learning, and bilingual education. By examining how various technological tools and approaches can be effectively harnessed to facilitate the acquisition and refinement of listening and reading skills in young EFL learners, we seek to provide valuable insights and practical recommendations for educators. Our research endeavors to shed light on the nuanced dynamics at play in leveraging technology to optimize teaching practices and enhance student outcomes in the digital age. Ultimately, our findings aspire to inform pedagogical approaches that not only foster linguistic proficiency but also nurture critical thinking, cultural awareness, and digital literacy among young learners in bilingual education contexts. Through this comprehensive exploration, we endeavor to contribute meaningfully to the advancement of educational practices that empower students to thrive in an increasingly interconnected and technologically-driven world.

METHODOLOGY

This qualitative research adopts a phenomenological approach to investigate the integration of technology in teaching receptive skills to young learners of English as a Foreign Language (EFL) within bilingual education contexts (Whitehead & Ryu, 2023; Hidayah & Prihantoro, 2022). Purposeful sampling will be employed to select educators, students, and other stakeholders with relevant experience in bilingual education programs. Semi-structured interviews and focus group discussions will be conducted to gather rich qualitative data on participants' experiences, perceptions, and attitudes towards technology integration in EFL instruction. Additionally, document analysis of curriculum materials and instructional resources will supplement the data collected from interviews and focus groups. Thematic analysis, supported by constant comparative methods, will be utilized to identify recurring patterns, themes, and categories within the data, providing insights into the impact of technology on receptive skills development in bilingual education. Ethical considerations, including informed consent, confidentiality, and respect for participants, will be paramount throughout the research process, ensuring the integrity and credibility of the study's findings.

FINDINGS AND DISCUSSION

The findings of this study shed light on the multifaceted impacts of technology integration in teaching receptive skills to young learners of English as a Foreign Language (EFL) within bilingual education contexts. Through classroom observations and interviews with the teachers, an English teacher, it was revealed that methods emphasizing reading skills are prevalent, often facilitated by textbooks and projector-based media. Despite this emphasis, the teachers also incorporate listening methods, leveraging technology such as LearningApps on cellphones during distance learning sessions. This strategic integration of technology has proven effective in enhancing students' learning experiences and comprehension levels, particularly through audio-based activities. The teachers' innovative use of LearningApps, including gamified assessments,

has yielded positive outcomes, with the majority of students demonstrating strong comprehension and engagement.

However, amidst these successes, challenges persist, notably regarding intermittent Bluetooth connections and unstable internet access, which occasionally disrupt the learning process. The teachers' resilience and creativity in addressing these challenges underscore the importance of adaptability and resourcefulness in navigating technological obstacles within bilingual education settings. To further deepen the significance of these findings, future research could explore students' perspectives on the long-term effects of technology-enhanced learning experiences, as well as the socio-cultural and institutional factors influencing technology integration initiatives. Additionally, practical recommendations derived from the teachers' experiences could inform educators and policymakers on effective strategies for overcoming common obstacles and optimizing technology integration to foster language acquisition and proficiency in bilingual education contexts. By contextualizing the findings within broader theoretical frameworks and practical implications, this study contributes to advancing pedagogical practices that empower students to thrive in an increasingly interconnected and technologically-driven world.

Summary of Methods and Technologies Used in EFL Instruction

The following table presents a summary of the methods and technologies employed in English as a Foreign Language (EFL) instruction within bilingual education contexts. These methods and technologies play a crucial role in shaping the learning experiences of young learners, particularly in developing receptive skills such as reading and listening. By leveraging a combination of traditional teaching methods and innovative digital tools, educators aim to create dynamic and engaging learning environments that cater to the diverse needs and preferences of students.

Table 1. Summary of Methods and Technologies Used in EFL Instruction

| Methods/Technologies | Description |
|---------------------------------|--|
| Reading Skills | Widely used method facilitated by textbooks and projector-based media. |
| Listening Skills | Incorporated alongside reading methods, utilizing technology such as LearningApps. |
| LearningApps Application | Used on cell phones for distance learning sessions to enhance audio-based learning activities. |

The integration of various methods and technologies, including reading skills facilitated by textbooks, listening skills complemented by digital platforms like LearningApps, and the strategic use of applications for distance learning sessions, reflects the evolving landscape of EFL instruction. These approaches not only enhance students' language acquisition journey but also underscore the importance of adapting pedagogical practices to meet the demands of a rapidly changing educational landscape. As educators continue to innovate and explore new avenues for technology integration, the quest for effective and inclusive language learning experiences in bilingual education contexts remains paramount.

Impact of Technology Integration on Student Learning

The Impact of Technology Integration on Student Learning, as summarized in Table 2, highlights the transformative effects of integrating technology, particularly through platforms like LearningApps, in English as a Foreign Language (EFL) instruction. These findings underscore the crucial role of technology in enhancing students' learning experiences, fostering engagement, and creating a positive classroom environment conducive to language acquisition and proficiency development.

Table 2. Impact of Technology Integration on Student Learning

| Impact | Description |
|-------------------------------------|--|
| Enhanced Learning | Technology integration, particularly through LearningApps, has improved students' learning experiences and comprehension levels. |
| Increased Engagement | Gamified assessments on LearningApps have fostered high levels of student engagement, leading to improved understanding of the material. |
| Positive Learning Experience | The teachers' efforts to make learning enjoyable have contributed to a positive overall experience for students, enhancing their motivation and enthusiasm for English learning. |

The impact of technology integration on student learning reveals the significant benefits derived from incorporating digital tools and resources into EFL instruction. From enhancing comprehension levels to fostering increased student engagement and overall positive learning experiences, technology integration, as evidenced in The teachers' teaching practices, holds immense potential for optimizing language learning outcomes in bilingual education contexts. These findings underscore the importance of continued exploration and innovation in leveraging technology to empower students and educators alike in the dynamic landscape of language education.

Challenges and Solutions in Technology Integration

The integration of technology in English as a Foreign Language (EFL) instruction within bilingual education contexts presents both opportunities and challenges. In Table 3, we outline the primary challenges encountered in technology integration and propose corresponding solutions to address these obstacles effectively. From intermittent Bluetooth connections to disruptions in the learning process, navigating these challenges requires innovative strategies and adaptability to ensure a seamless and effective learning experience for students.

Table 3. Summary of Methods and Technologies Used in EFL Instruction

| Challenges | Description |
|--|--|
| Intermittent Connection | Implementing backup audio solutions and troubleshooting techniques. |
| Bluetooth | |
| Unstable Internet Connectivity | Utilizing offline resources and alternative communication channels. |
| Disruptions in Learning Process | The teachers' creativity and adaptability in responding to challenges. |

In conclusion, while challenges may arise in the integration of technology in EFL instruction, proactive measures and creative solutions can mitigate these obstacles. By implementing backup audio solutions, utilizing offline resources, and fostering adaptability in response to disruptions, educators like the teachers can continue to harness the potential of technology to enhance students' language learning experiences. Through strategic problem-solving and a commitment to innovation, educators can overcome challenges and unlock the transformative benefits of technology integration in bilingual education settings.

Discussion

The findings of this study significantly contribute to the ongoing dialogue concerning the integration of technology within English as a Foreign Language (EFL) instruction, especially in the unique context of bilingual education. By delving into the effects of technology on imparting receptive skills to young learners, particularly in the domains of reading and listening, this research expands upon the existing body of literature. It offers not only novel insights but also validates and enhances previous understandings of effective pedagogical practices in language education. The study illuminates how the strategic incorporation of digital tools can revolutionize the teaching and learning experience, fostering engagement, motivation, and ultimately, proficiency in language acquisition. Moreover, by addressing the challenges inherent in technology integration, such as connectivity issues, the research provides practical solutions and strategies for educators to navigate these obstacles effectively. In doing so, it not only advances theoretical knowledge but also offers actionable recommendations for improving instructional approaches in bilingual education settings. Overall, this study enriches our understanding of the complex interplay between technology, pedagogy, and language learning, ultimately empowering educators to optimize their practices and enhance student outcomes in an ever-evolving educational landscape.

The integration of technology in language education has garnered significant attention in recent years, reflecting a growing recognition of its potential to revolutionize traditional pedagogical approaches. Previous research has consistently demonstrated the myriad benefits of incorporating digital tools and resources into language learning environments. Studies by Levy & Kennedy (2016) and Hubbard (2019) have highlighted how technology can enhance engagement, motivation, and learning outcomes among students. Our study aligns with these findings, emphasizing the transformative effects of technology integration in language education. By leveraging digital tools, educators can create dynamic and interactive learning environments that foster active engagement and facilitate language acquisition. Through multimedia resources, gamified activities, and interactive simulations, technology enriches learning experiences, catering to diverse learning styles and preferences. Moreover, the integration of technology cultivates a

positive learning environment, characterized by collaboration, exploration, and creativity. This study underscores the pivotal role of technology in shaping the future of language education, offering educators innovative avenues to enhance student learning and proficiency.

Our research findings resonate with previous studies, underscoring the imperative for educators to adapt pedagogical approaches to suit the evolving needs and preferences of digitally-native learners, as emphasized by Chen (2018) and Stockwell (2019). In an era where digital technologies permeate every facet of daily life, educators are tasked with harnessing these tools to cultivate dynamic and interactive learning experiences that resonate with contemporary learners. Our study highlights the strategic utilization of digital platforms like LearningApps as a prime example of how technology can be effectively leveraged to enhance students' receptive skills while accommodating their diverse learning styles and preferences. By integrating such digital tools into language learning environments, educators can foster engagement, motivation, and ultimately, more effective language acquisition. This approach not only aligns with the digital fluency of today's students but also empowers educators to cater to individual learning needs, thus optimizing the learning experience for all.

Furthermore, our findings resonate with and contribute to the broader literature discussing the challenges inherent in technology integration within educational settings (Albirini, 2006; Ertmer, 2019). While technology-enhanced learning environments offer numerous benefits, educators frequently face obstacles such as connectivity issues and technological disruptions. These challenges can impede the seamless delivery of instruction and hinder student engagement. However, our study goes beyond identifying these challenges by proposing practical solutions to mitigate their impact on the teaching and learning process. For instance, in response to intermittent connectivity problems, educators can implement backup audio solutions to ensure continuous access to instructional materials. Additionally, utilizing offline resources can provide a reliable alternative during periods of unstable internet connectivity. By acknowledging and addressing these challenges proactively, educators can optimize technology integration to create more resilient and effective learning environments, ultimately enhancing students' educational experiences and outcomes.

Our research serves as a significant contribution to the existing literature by addressing a notable gap concerning the integration of technology within bilingual education contexts. While prior studies have extensively explored the role of technology in language learning in general, there has been a dearth of research specifically focusing on its application within bilingual education programs. Our study strategically examines the intersection of technology, language learning, and bilingual education, offering valuable insights into how digital tools can effectively enhance linguistic proficiency and cultural awareness among young learners in bilingual settings. By delving into this underexplored area, we illuminate the potential of technology to transform language learning experiences within the unique context of bilingual education, where learners navigate multiple linguistic and cultural dimensions simultaneously. Through qualitative research methods, including interviews and document analysis, we uncover the nuanced dynamics at play and provide practical recommendations for educators and policymakers. Ultimately, our study underscores the importance of recognizing and harnessing the power of technology to empower bilingual learners and prepare them for success in an increasingly diverse and interconnected world.

While our study has provided valuable insights into the integration of technology in English as a Foreign Language (EFL) instruction within bilingual education contexts, it is crucial to

acknowledge its limitations and identify areas for future research. The qualitative nature of our research has allowed us to delve deeply into educators' experiences and perceptions, offering rich insights into the impact of technology on receptive skills development. However, the inherent limitations of qualitative research, such as the potential lack of generalizability across different contexts, warrant consideration. Future studies could benefit from employing mixed-methods approaches, combining qualitative and quantitative methods, to triangulate findings and provide a more comprehensive understanding of the complex dynamics at play. Additionally, longitudinal studies could investigate the long-term effects of technology-enhanced language learning experiences on students' linguistic proficiency and academic achievement. By exploring these avenues, researchers can further illuminate the nuances of technology integration in bilingual education settings and inform evidence-based pedagogical practices that optimize student learning outcomes.

The integration of technology into English as a Foreign Language (EFL) instruction within bilingual education contexts holds significant promise for revolutionizing language learning experiences and nurturing students' linguistic and cultural proficiencies. By embracing digital tools and resources, educators can create dynamic and interactive learning environments that cater to the diverse needs and preferences of students. Building upon previous research findings, this approach acknowledges the transformative potential of technology in fostering engagement, motivation, and positive learning outcomes. However, it is essential to address the challenges inherent in technology integration, such as connectivity issues and technological disruptions. Through proactive measures and innovative solutions, educators can mitigate these obstacles and unlock the full potential of digital tools to optimize language learning experiences. By doing so, they can empower students to navigate the complexities of an increasingly interconnected and technologically-driven world with confidence and proficiency, equipping them with the skills and knowledge necessary for success in diverse linguistic and cultural landscapes.

CONCLUSION

In conclusion, this study has shed light on the transformative potential of technology integration in English as a Foreign Language (EFL) instruction for young learners within bilingual education contexts. By examining the impact of digital tools on receptive skills development, particularly in reading and listening, we have underscored the importance of adapting pedagogical practices to meet the evolving needs of digitally-native learners. Our findings highlight the role of platforms like LearningApps in creating dynamic and interactive learning environments that foster engagement, motivation, and positive learning experiences. While challenges such as connectivity issues persist, proactive measures and innovative solutions can help educators overcome these obstacles and optimize technology integration to maximize student learning outcomes. Overall, the integration of technology in EFL instruction within bilingual education contexts holds promise for empowering students and preparing them for success in an increasingly interconnected and technologically-driven world, ensuring that they thrive in diverse linguistic and cultural landscapes.

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