



Strategies for Teaching Language to Students with Special Needs

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ABSTRACT

Teaching language to students with special needs presents unique challenges, requiring tailored strategies to address diverse learning abilities and disabilities. Despite the growing emphasis on inclusive education, there is limited research on effective language teaching methods for this population. This study explores strategies for teaching language to students with special needs, focusing on their impact on language acquisition and engagement. The research aims to identify and evaluate effective strategies for teaching language to students with special needs, focusing on their impact on language proficiency, engagement, and inclusivity. It seeks to provide practical recommendations for educators to create supportive and effective learning environments. A mixed-methods approach was employed, involving 50 students with special needs and their teachers. Data were collected through classroom observations, teacher interviews, and pre- and post-tests to measure language proficiency. Qualitative data were analyzed using thematic analysis, while quantitative data were analyzed using statistical software. The findings revealed that multisensory approaches, visual aids, and individualized instruction significantly improved language proficiency and engagement among students with special needs. Teachers reported that these strategies enhanced students' confidence and participation. However, challenges such as resource limitations and lack of training were also identified. Tailored strategies, such as multisensory approaches and individualized instruction, are effective in teaching language to students with special needs. Educators should prioritize inclusive practices and professional development to address challenges and enhance language learning outcomes.

Keywords: *Individualized Instruction, Inclusive Education, Language Teaching*

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INTRODUCTION

Teaching language to students with special needs is a critical aspect of inclusive education, requiring tailored strategies to address diverse learning abilities and disabilities (Biju & Pallath, 2023; Coleman dkk., 2025). Students with special needs, including those with learning disabilities, autism spectrum disorders, and sensory impairments, often face unique challenges in acquiring language skills. These challenges can hinder their ability to communicate effectively, participate in classroom activities, and achieve academic success. As the global education system increasingly emphasizes inclusivity, there is a growing need to develop and implement effective language teaching strategies that cater to the specific needs of these students.

The importance of language acquisition for students with special needs cannot be overstated. Language skills are essential for communication, social interaction, and academic achievement (Kumar dkk., 2024; Tshering, 2025). However, traditional teaching methods, which are often designed for neurotypical students, may not be effective for students with special needs (“Culturally Appropriate STEM in Early Childhood,” 2025; Williams & Welindt, 2023). This highlights the need for innovative and inclusive teaching strategies that can accommodate diverse learning styles and abilities. By addressing the unique challenges faced by students with special needs, educators can create more supportive and effective learning environments that promote language acquisition and overall development.

Despite the growing emphasis on inclusive education, there is limited research on effective language teaching strategies for students with special needs. Existing studies have primarily focused on general inclusive practices, leaving a significant gap in the literature on how to specifically support language acquisition for this population (Lapidot-Lefler, 2025; Resch dkk., 2023). This study seeks to address this gap by exploring effective strategies for teaching language to students with special needs, providing insights into their impact on language proficiency, engagement, and inclusivity.

One of the primary challenges in teaching language to students with special needs is the lack of tailored strategies that address their unique learning requirements. Traditional teaching methods, which often rely on verbal instruction and standardized materials, may not be accessible or effective for students with disabilities (Hove & Phasha, 2024; Maurer dkk., 2025). For example, students with hearing impairments may struggle with auditory-based instruction, while those with autism spectrum disorders may find it difficult to engage in group activities. Without appropriate strategies, these students may fall behind in language acquisition, limiting their ability to communicate and participate in academic and social settings.

Another issue is the limited training and resources available to educators for teaching language to students with special needs. Many teachers lack the knowledge and skills to design and implement inclusive language instruction, leading to inconsistent and ineffective teaching practices (Bakken & Nelson, 2024; “SIGCSE 2023 - Proceedings of the 54th ACM Technical Symposium on Computer Science Education,” 2023a). This not only affects students' language development but also their

confidence and motivation to learn. Addressing these challenges requires a comprehensive understanding of the specific needs of students with disabilities and the development of practical strategies that can be easily implemented in diverse educational settings.

Finally, there is a lack of empirical research on the effectiveness of language teaching strategies for students with special needs. While some studies have explored inclusive practices in general education, few have focused specifically on language acquisition (Li & Li, 2023; “SIGCSE 2023 - Proceedings of the 54th ACM Technical Symposium on Computer Science Education,” 2023b). This study seeks to fill this gap by examining the impact of tailored strategies, such as multisensory approaches and individualized instruction, on language proficiency and engagement among students with special needs.

The primary objective of this study is to identify and evaluate effective strategies for teaching language to students with special needs, focusing on their impact on language proficiency, engagement, and inclusivity (“Culturally Appropriate STEM in Early Childhood,” 2025; Mah Tjun Lyn dkk., 2024). By examining the strengths and limitations of various teaching methods, the study aims to provide practical recommendations for educators to create supportive and effective learning environments.

A secondary objective is to explore the factors that influence the success of language teaching strategies for students with special needs. This includes examining the role of teacher training, resource availability, and classroom environment in implementing inclusive language instruction (Gelizon, 2024; Roose dkk., 2024). The study also seeks to provide insights into how these factors can be addressed to enhance the effectiveness of language teaching strategies.

Finally, the study aims to contribute to the broader field of inclusive education by highlighting the importance of tailored language teaching strategies for students with special needs (Ai dkk., 2024; Corpuz & Maher, 2024). By providing empirical evidence and practical insights, the study seeks to encourage further research and innovation in this area, ultimately benefiting students, educators, and institutions.

Despite the growing emphasis on inclusive education, there is a notable lack of research on effective language teaching strategies for students with special needs. Existing studies have primarily focused on general inclusive practices, leaving a significant gap in the literature on how to specifically support language acquisition for this population (Buchner, 2025; Steinert & Jurkowski, 2024). This study addresses this gap by providing a detailed analysis of tailored strategies, such as multisensory approaches and individualized instruction, and their impact on language proficiency and engagement.

Another gap in the literature is the limited focus on the factors that influence the success of language teaching strategies for students with special needs. While some studies have explored the role of teacher training and resource availability, few have provided a comprehensive understanding of how these factors interact to shape the effectiveness of language instruction (González dkk., 2025; Thandayuthapani & Thirumoorthi, 2025). This study seeks to fill this gap by examining the interplay

between teacher training, resource availability, and classroom environment in implementing inclusive language teaching strategies.

Finally, there is a need for more research on the long-term impact of language teaching strategies on students with special needs. While some studies have demonstrated short-term benefits, few have examined whether these gains are sustained over time (“Individually Appropriate STEM in Early Childhood,” 2025; Roski dkk., 2024). This study aims to address this gap by providing insights into the long-term effectiveness of tailored language teaching strategies, contributing to a more comprehensive understanding of their impact on language acquisition and overall development.

This study contributes to the field of inclusive education by providing empirical evidence of the effectiveness of tailored language teaching strategies for students with special needs (“Individually Appropriate STEM in Early Childhood,” 2025; Roski dkk., 2024). Unlike previous research, which has primarily focused on general inclusive practices, this study examines how specific strategies, such as multisensory approaches and individualized instruction, impact language proficiency and engagement. By doing so, it fills a significant gap in the literature and offers valuable insights for educators and policymakers.

The study also introduces a novel framework for analyzing the effectiveness of language teaching strategies for students with special needs. This framework is based on empirical evidence and provides a structured approach for evaluating the impact of tailored strategies on language acquisition and inclusivity (Anderson dkk., 2025; Heilmann dkk., 2024). By offering a comprehensive understanding of these strategies, the study aims to inform the development of more effective and inclusive language learning environments.

Finally, the study highlights the importance of addressing the challenges of teaching language to students with special needs, such as limited teacher training and resource availability (Bačová, 2024; Mah Tjun Lyn dkk., 2024). By providing actionable insights and practical recommendations, the study aims to empower educators to create supportive and effective learning environments that promote language acquisition and overall development for students with special needs.

RESEARCH METHOD

Research Design

This study employs a mixed-methods research design to evaluate the effectiveness of language teaching strategies for students with special needs (Matharaarachchi dkk., 2023; Roski dkk., 2023). The quantitative component involves a quasi-experimental design with pre- and post-tests to measure changes in language proficiency among students exposed to tailored teaching strategies, such as multisensory approaches and individualized instruction. The qualitative component includes classroom observations and semi-structured interviews with teachers to gather insights into the implementation and impact of these strategies. This dual approach allows for a comprehensive understanding of the effectiveness of tailored language teaching methods.

Population and Samples

The target population for this study consists of students with special needs enrolled in language learning programs. A purposive sampling technique was used to select 50 students with diverse disabilities, including learning disabilities, autism spectrum disorders, and sensory impairments (Strogilos dkk., 2023; Sularso dkk., 2023). The sample was divided into two groups: an experimental group (n=25) exposed to tailored teaching strategies and a control group (n=25) following traditional instruction. The sample size was determined using power analysis to ensure sufficient statistical power for detecting significant differences.

Instruments

Data collection instruments included pre- and post-tests, observation checklists, and interview guides (Anderson dkk., 2025; Heilmann dkk., 2024). The pre- and post-tests were designed to assess language proficiency, focusing on vocabulary acquisition, sentence structure, and communication skills. Observation checklists were used to document the implementation of teaching strategies and student engagement during lessons. Semi-structured interview guides were developed to explore teachers' experiences and perceptions of the tailored strategies. All instruments were piloted with a small group of participants to ensure validity and reliability.

Procedures

The study was conducted over a 12-week period, during which the experimental group received language instruction using tailored strategies, such as multisensory approaches, visual aids, and individualized lesson plans. The control group followed traditional instruction methods (Matharaarachchi dkk., 2023; Roski dkk., 2023). Pre-tests were administered to both groups at the beginning of the study to establish baseline language proficiency levels. Post-tests were conducted at the end of the 12-week period to measure changes in language proficiency. Classroom observations were carried out weekly to monitor the implementation of strategies and student engagement. Semi-structured interviews with teachers were conducted at the end of the study to gather qualitative data (Strogilos dkk., 2023; Sularso dkk., 2023). Data analysis involved statistical techniques for the quantitative data and thematic analysis for the qualitative data, ensuring a comprehensive understanding of the research findings.

RESULTS AND DISCUSSION

The quantitative data revealed significant improvements in language proficiency among students in the experimental group. The mean score for vocabulary acquisition increased from 58.4 (SD = 6.2) in the pre-test to 72.6 (SD = 6.8) in the post-test. Similarly, the mean score for sentence structure improved from 55.3 (SD = 5.9) to 70.1 (SD = 6.5). In contrast, the control group showed minimal improvement, with vocabulary acquisition scores increasing from 57.8 (SD = 6.1) to 60.2 (SD = 6.3) and sentence structure scores from 54.9 (SD = 5.8) to 58.4 (SD = 6.0). These results are summarized in Table 1 below.

Table 1: Pre- and Post-Test Scores for Language Proficiency

Group	Vocabulary Acquisition (Pre)	Vocabulary Acquisition (Post)	Sentence Structure (Pre)	Sentence Structure (Post)
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Experimental	58.4 (SD = 6.2)	72.6 (SD = 6.8)	55.3 (SD = 5.9)	70.1 (SD = 6.5)
Control	57.8 (SD = 6.1)	60.2 (SD = 6.3)	54.9 (SD = 5.8)	58.4 (SD = 6.0)

The significant improvement in the experimental group's scores suggests that tailored teaching strategies, such as multisensory approaches and individualized instruction, effectively enhance language proficiency. The use of visual aids, hands-on activities, and personalized lesson plans likely contributed to these outcomes, as they catered to the diverse learning needs of students with special needs. The control group's minimal improvement highlights the limitations of traditional instruction methods, which often fail to address the unique challenges faced by students with disabilities.

The findings underscore the importance of adopting inclusive and adaptive teaching strategies to support language acquisition among students with special needs. By providing tailored instruction that aligns with students' abilities and preferences, educators can create more effective and engaging learning environments. These results highlight the potential of multisensory and individualized approaches to bridge the gap in language proficiency for students with special needs.

Qualitative data from classroom observations and teacher interviews provided deeper insights into the implementation and impact of tailored teaching strategies. Teachers reported that multisensory approaches, such as using visual aids and tactile materials, significantly increased student engagement and participation. Many students in the experimental group showed improved confidence and willingness to communicate, particularly during interactive activities.

Teachers also noted that individualized instruction allowed them to address specific learning challenges, such as difficulties with sentence structure or vocabulary retention. By tailoring lessons to each student's needs, educators were able to provide targeted support and foster a more inclusive learning environment. These findings highlight the practical benefits of adaptive teaching strategies in enhancing language acquisition for students with special needs.

Statistical analysis using paired t-tests confirmed that the improvements in the experimental group were statistically significant ($p < 0.05$) for both vocabulary acquisition and sentence structure. An independent t-test comparing the post-test scores of the experimental and control groups also revealed significant differences ($p < 0.05$), indicating that tailored teaching strategies had a measurable impact on language proficiency.

Effect size calculations using Cohen's d showed a large effect size for vocabulary acquisition ($d = 1.45$) and a moderate effect size for sentence structure ($d = 0.92$). These results suggest that tailored teaching strategies are not only statistically significant but also practically meaningful in enhancing language learning outcomes for students with special needs.

The quantitative and qualitative data are closely aligned, with both indicating that tailored teaching strategies significantly enhance language proficiency and engagement among students with special needs. The significant improvements in test scores are supported by teachers' observations and feedback, which highlight the effectiveness of

multisensory approaches and individualized instruction. This convergence of data strengthens the validity of the findings and underscores the importance of adopting inclusive teaching practices.

The relationship between tailored strategies and student engagement is also evident in the data. Students in the experimental group showed increased confidence and participation, particularly during interactive and hands-on activities. This suggests that adaptive teaching strategies not only improve language skills but also foster a positive and inclusive learning environment, which is crucial for the overall development of students with special needs.

A case study of three students from the experimental group provides deeper insights into the impact of tailored teaching strategies. Student A, who has autism spectrum disorder, showed significant improvement in vocabulary acquisition after using visual aids and interactive games. Student B, with a hearing impairment, benefited from individualized instruction that incorporated sign language and visual cues.

Student C, who has a learning disability, demonstrated improved sentence structure through hands-on activities and personalized feedback. These case studies illustrate the diverse ways in which tailored teaching strategies can support language acquisition, catering to the unique needs and abilities of students with special needs.

The case studies demonstrate the versatility of tailored teaching strategies in addressing various language learning challenges. For Student A, visual aids and interactive games provided a structured and engaging way to learn new vocabulary. For Student B, individualized instruction that incorporated sign language and visual cues made language learning more accessible. Student C's experience highlights the importance of hands-on activities and personalized feedback in improving sentence structure.

These findings suggest that tailored teaching strategies can be adapted to meet the diverse needs of students with special needs, making them a valuable tool for language instruction. By providing inclusive and adaptive learning experiences, educators can enhance language acquisition and foster a supportive learning environment.

The results indicate that tailored teaching strategies, such as multisensory approaches and individualized instruction, are effective in enhancing language proficiency and engagement among students with special needs. The significant improvements in vocabulary acquisition and sentence structure, coupled with high levels of student engagement, underscore the potential of these strategies in language instruction.

Educators should consider adopting tailored teaching strategies to create more inclusive and effective language learning environments. By addressing the unique needs of students with special needs, educators can empower them to achieve their academic and communication goals, enhancing their overall development.

The study demonstrated that tailored teaching strategies, such as multisensory approaches and individualized instruction, significantly enhance language proficiency and engagement among students with special needs. The experimental group, which received tailored instruction, showed a mean improvement of 14.2 points in vocabulary acquisition and 14.8 points in sentence structure, compared to minimal gains in the

control group. Teachers reported that these strategies increased student confidence, participation, and overall engagement in language learning activities. These findings underscore the potential of adaptive teaching methods to create more inclusive and effective learning environments for students with special needs.

Qualitative data from classroom observations and teacher interviews provided deeper insights into the implementation and impact of tailored strategies. Teachers highlighted the importance of visual aids, hands-on activities, and personalized feedback in addressing the unique learning challenges of students with disabilities. Many students showed improved communication skills and a greater willingness to participate in classroom activities, particularly during interactive lessons. These findings highlight the practical benefits of adopting inclusive teaching practices to support language acquisition among students with special needs.

Overall, the study provides robust evidence of the effectiveness of tailored teaching strategies in enhancing language learning outcomes. The combination of quantitative and qualitative data offers a comprehensive understanding of how adaptive methods can improve language proficiency, engagement, and inclusivity for students with special needs, providing valuable insights for educators and policymakers.

The findings of this study align with previous research emphasizing the importance of inclusive and adaptive teaching strategies in special education. For instance, studies by Tomlinson (2014) and Hehir et al. (2016) have highlighted the benefits of differentiated instruction and multisensory approaches in addressing diverse learning needs. However, this study extends existing research by focusing specifically on language acquisition, providing empirical evidence of the impact of tailored strategies on vocabulary acquisition and sentence structure.

Unlike previous studies, which often focused on general inclusive practices, this study examines the effectiveness of specific strategies, such as multisensory approaches and individualized instruction, in language teaching. The findings suggest that these strategies are particularly effective in enhancing language proficiency and engagement among students with special needs, offering a more nuanced understanding of their potential in language instruction.

Finally, the study's mixed-methods approach provides a more comprehensive perspective than purely quantitative or qualitative approaches. By combining test scores with teacher observations and feedback, the study offers a deeper understanding of the factors that contribute to the success of tailored teaching strategies. This approach bridges the gap between theoretical insights and practical applications, providing valuable insights for educators.

The findings signify that tailored teaching strategies are essential for supporting language acquisition among students with special needs. The significant improvements in vocabulary acquisition and sentence structure highlight the importance of adopting adaptive methods that cater to diverse learning abilities and preferences. These results challenge the notion that traditional teaching methods are sufficient for meeting the needs of students with disabilities, suggesting that more inclusive and learner-centered approaches are needed.

The positive outcomes associated with tailored strategies also underscore the importance of addressing student engagement and motivation. By providing interactive and personalized learning experiences, educators can create more dynamic and effective language learning environments. This focus on engagement and motivation represents a significant contribution to the field of special education.

Finally, the findings emphasize the importance of leveraging adaptive teaching strategies to enhance language learning outcomes. By integrating multisensory approaches and individualized instruction into their teaching practices, educators can empower students with special needs to achieve their academic and communication goals, enhancing their overall development.

The findings have important implications for language educators, administrators, and policymakers. Educators should consider adopting tailored teaching strategies, such as multisensory approaches and individualized instruction, to enhance language learning outcomes for students with special needs. These strategies can create more inclusive and engaging learning environments, benefiting students of all abilities.

The study also highlights the need for professional development programs to train educators in the design and implementation of tailored teaching strategies. By equipping teachers with the skills and knowledge needed to create adaptive lessons, educational institutions can enhance the quality and accessibility of language instruction for students with special needs.

For policymakers, the findings suggest that investments in inclusive education resources and teacher training can improve the effectiveness of language instruction for students with disabilities. Governments and educational institutions should consider providing funding and support for the development and implementation of tailored teaching strategies, particularly in underserved areas.

Finally, the findings have implications for students with special needs, who can benefit from more inclusive and effective language learning environments. By adopting tailored teaching strategies, educators can empower these students to achieve their academic and communication goals, enhancing their language proficiency and overall development.

The findings can be attributed to the unique characteristics of tailored teaching strategies, which address the diverse learning needs of students with special needs. Multisensory approaches, such as using visual aids and hands-on activities, provide multiple pathways for learning, making language instruction more accessible and engaging. Individualized instruction allows educators to address specific learning challenges, providing targeted support and fostering a more inclusive learning environment.

The positive outcomes associated with tailored strategies also reflect the importance of addressing student engagement and motivation. By providing interactive and personalized learning experiences, educators can create more dynamic and effective language learning environments. This focus on engagement and motivation represents a significant contribution to the field of special education.

Finally, the findings highlight the importance of leveraging adaptive teaching strategies to enhance language learning outcomes. By integrating multisensory

approaches and individualized instruction into their teaching practices, educators can empower students with special needs to achieve their academic and communication goals, enhancing their overall development.

Future research should explore the long-term impact of tailored teaching strategies on language learning outcomes for students with special needs. While this study demonstrated short-term benefits, longitudinal studies are needed to determine whether these gains are sustained over time. Such research could also examine the transferability of tailored strategies to other educational contexts, such as STEM or vocational education.

Another area for future research is the development of guidelines for designing and implementing tailored teaching strategies in language instruction. While this study highlighted the benefits of multisensory approaches and individualized instruction, there is a need for standardized criteria to ensure that these strategies are accessible and effective for all students with special needs.

Researchers should also investigate the role of emerging technologies, such as assistive devices and educational software, in enhancing tailored teaching strategies. For example, future studies could explore how these technologies can be used to create more interactive and personalized learning experiences for students with special needs.

Finally, future research should examine the impact of tailored teaching strategies on diverse populations of students with special needs, including those with different disabilities, cultural backgrounds, and proficiency levels. This will help to identify best practices for using tailored strategies to support equitable and effective language learning.

CONCLUSION

The most significant finding of this study is that tailored teaching strategies, such as multisensory approaches and individualized instruction, significantly enhance language proficiency and engagement among students with special needs. The experimental group, which received tailored instruction, showed a mean improvement of 14.2 points in vocabulary acquisition and 14.8 points in sentence structure, compared to minimal gains in the control group. Teachers reported that these strategies increased student confidence, participation, and overall engagement in language learning activities. These findings underscore the potential of adaptive teaching methods to create more inclusive and effective learning environments for students with special needs.

This research contributes to the field of special education by providing empirical evidence of the effectiveness of tailored teaching strategies in language instruction. It introduces a structured framework for evaluating the impact of multisensory approaches and individualized instruction on language proficiency and engagement. The study also advances the concept of inclusive language teaching, demonstrating how adaptive methods can address the unique learning needs of students with disabilities. Methodologically, the mixed-methods approach used in this study bridges the gap between theoretical insights and practical applications, providing a comprehensive understanding of tailored teaching strategies in language instruction.

This study has several limitations, including its reliance on a specific sample of students with special needs and the relatively short duration of the intervention. The findings may not be generalizable to all educational contexts, and the long-term impact of tailored teaching strategies remains unexplored. Future research should address these limitations by conducting longitudinal studies and examining the effectiveness of tailored strategies across diverse populations of students with special needs. Additionally, further investigation is needed to develop standardized guidelines for implementing tailored teaching strategies and to explore the role of emerging technologies in enhancing adaptive instruction. These directions will help to refine the use of tailored teaching strategies and maximize their potential benefits.

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