OPEN ACCESS
Research Psychologie, Orientation et Conseil
Vol. 3 No. 4. August 2026, pp. 289-301
DOI. 10.70177/rpoc.v3i4.4368
Research Article

EDUCATIONAL INTERVENTIONS FOR LEARNING DISABILITIES: EFFICACY AND CHALLENGES

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Article Info
Received: February 11, 2026
Revised: May 10, 2026
Accepted: June 06, 2026
Online Version: August 31, 2026

Abstract
Learning disabilities (LD) affect a significant portion of the student population worldwide, presenting challenges to academic achievement and personal development. While educational interventions have been developed to address these challenges, their efficacy varies across different contexts and student populations. Understanding which interventions are most effective and the challenges they present is essential for improving educational outcomes for students with learning disabilities. This study aims to evaluate the efficacy of various educational interventions for learning disabilities and to identify the challenges faced in implementing these strategies in diverse educational settings. The research seeks to offer insights into the best practices for supporting students with learning disabilities. A systematic review of quantitative and qualitative studies was conducted, focusing on interventions aimed at improving reading, writing, and mathematics skills in students with learning disabilities. Data from 50 peer-reviewed articles were analyzed to assess the effectiveness of these interventions in different educational environments. The findings indicate that personalized instruction, multi-sensory approaches, and assistive technology are the most effective interventions for improving academic outcomes. Educational interventions for learning disabilities are generally effective, though their success is contingent on overcoming several challenges. Future efforts should focus on improving accessibility, teacher support, and tailored interventions to enhance outcomes for students with learning disabilities.

Keywords: Academic Outcomes, Educational Interventions, Learning Disabilities

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Journal Homepage https://research.adra.ac.id/index.php/rpoc ISSN: (P: 3048-0078) - (E: 3048-1937)
How to cite: Baharuddin, Baharuddin., Lima, L & Alves, L. (2026). Educational Interventions for Learning Disabilities: Efficacy and Challenges. *Research Psychologie, Orientation et Conseil, 3*(4), 289–301. https://doi.org/10.70177/rpoc.v3i4.4368
Published by: Yayasan Adra Karima Hubbi

INTRODUCTION

Learning disabilities (LD) are a significant concern in educational settings worldwide. These disabilities, which affect how individuals process, interpret, and respond to information, can lead to difficulties in acquiring basic academic skills, particularly in reading, writing, and mathematics. The prevalence of learning disabilities varies across regions, but it is estimated that approximately 5-10% of the global student population is affected. As such, these challenges create substantial barriers to academic success, self-esteem, and future opportunities for individuals who experience them. Educational interventions for students with learning disabilities have evolved over time, with a focus on addressing specific cognitive and behavioral needs through specialized instructional strategies. These interventions are designed to provide tailored support to help students overcome their difficulties and achieve academic success (Dutt et al., 2022; Fletcher & Miciak, 2024).

While various interventions have been developed and implemented to support students with LD, the efficacy of these methods remains a subject of considerable debate. The landscape of educational interventions for learning disabilities is diverse, including approaches such as individualized instruction, assistive technology, multi-sensory teaching, and behavioral interventions. However, the effectiveness of these interventions can vary depending on factors such as the severity of the disability, the resources available, and the training of educators. As the educational needs of students with LD continue to evolve, there is an increasing need to assess the effectiveness of current interventions and identify the challenges that may hinder their successful implementation in diverse educational contexts (Kamran et al., 2023; Simpson et al., 2023).

Research has shown that early identification and intervention are critical in minimizing the long-term academic and psychological effects of learning disabilities. However, the gap between research-based strategies and their practical application in schools remains a persistent issue. Teachers, administrators, and policymakers face numerous challenges in implementing effective interventions, including limited resources, insufficient teacher training, and a lack of widespread awareness about the importance of tailored educational support. As the educational landscape becomes more inclusive, it is crucial to evaluate the existing interventions and address the barriers to their successful application.

Despite the extensive body of research on educational interventions for learning disabilities, several key issues remain unresolved. One of the primary challenges is determining which interventions are most effective in improving academic outcomes for students with LD, particularly in varied educational settings. While certain approaches, such as individualized education plans (IEPs) and multi-sensory teaching methods, have been shown to be effective in some contexts, there is no one-size-fits-all solution. The diversity of learning disabilities and the unique needs of students across different cultural, socio-economic, and educational backgrounds require a nuanced understanding of how different interventions work in practice. Furthermore, many existing studies focus primarily on short-term academic improvements, leaving the long-term efficacy of these interventions largely unexplored (Eseadi, 2023; Rashid & Wong, 2023).

Another significant issue is the gap between theoretical models of intervention and the real-world challenges educators face when implementing these strategies. Many schools, particularly those in under-resourced areas, struggle to provide the necessary support and infrastructure for students with learning disabilities. Limited funding, large class sizes, and

insufficient teacher training can undermine the effectiveness of even the most well-designed interventions. Moreover, there is often a lack of coordination between special education services and general education classrooms, which can result in fragmented support systems for students. The absence of standardized, evidence-based approaches across educational systems further complicates efforts to enhance the quality of support for students with learning disabilities (Ezzatibabi & Aghajani, 2022; Kim, 2022).

This study aims to address these problems by assessing the current state of educational interventions for learning disabilities, identifying the most effective strategies, and examining the challenges that hinder their successful implementation. By investigating the efficacy of various interventions across different settings and exploring the obstacles that educators and institutions face, this research seeks to contribute valuable insights that can inform future practices and policies aimed at improving educational outcomes for students with LD.

The primary objective of this study is to evaluate the efficacy of current educational interventions for learning disabilities in improving academic performance, student engagement, and overall academic success. This research will focus on understanding the impact of interventions such as individualized instruction, assistive technology, and multi-sensory teaching techniques on students with learning disabilities. The study will also explore how these interventions contribute to students' social and emotional development, resilience, and self-confidence, which are essential components of long-term academic success (Kaufman, 2022; Weber et al., 2023).

In addition to evaluating the effectiveness of interventions, the study will identify the key challenges faced by educators and institutions in implementing these strategies. This includes examining issues such as the adequacy of teacher training, the availability of resources, and the level of institutional support for students with learning disabilities. The research aims to uncover the barriers that prevent these interventions from being fully implemented and to suggest practical solutions that can improve the quality of support provided to students with LD. This study also seeks to assess how contextual factors, such as school type, socio-economic status, and student demographics, influence the effectiveness of these interventions, thus offering a comprehensive view of how to best support students with learning disabilities in diverse educational environments (Goodley, 2025; Rizk & Hillier, 2022).

The research aims to provide a set of recommendations for policymakers, educators, and school administrators on how to improve the implementation of effective interventions for learning disabilities. By focusing on both the efficacy of interventions and the challenges to their implementation, this study seeks to contribute to the development of more effective and accessible educational practices for students with LD. The findings are expected to provide a clear understanding of which interventions work best in various contexts and offer actionable steps for improving the educational experiences of students with learning disabilities.

While a wealth of research has been conducted on the various educational interventions for students with learning disabilities, several gaps remain in the existing literature. A primary gap is the lack of long-term studies that evaluate the sustained effectiveness of interventions beyond the immediate academic year. Many studies focus on short-term outcomes, such as improved test scores or increased participation, without assessing the lasting impact of interventions on students' academic trajectories or social development. Furthermore, existing research often examines individual interventions in isolation, failing to consider the cumulative effect of multiple strategies when used in combination. There is a need for research that

evaluates the broader, long-term impact of integrated intervention programs on students' success in higher education and their ability to transition into adulthood (Chang, 2024; Filderman & Toste, 2022).

Additionally, while there is a growing recognition of the importance of individualized support for students with learning disabilities, there is limited research on how interventions can be tailored to meet the diverse needs of students across different cultural, socio-economic, and educational backgrounds. Most studies have been conducted in Western, developed-country contexts, and the applicability of these findings in other global settings remains uncertain. This gap in the literature calls for research that explores how interventions can be adapted and implemented in diverse educational environments, particularly in low-resource and high-need settings where learning disabilities may be under-recognized or poorly supported (Duggan, 2025; Lu et al., 2022).

This study addresses these gaps by focusing on both the immediate and long-term effects of educational interventions for learning disabilities. By assessing the effectiveness of a range of interventions in diverse educational settings, this research aims to provide insights into how these strategies can be more effectively implemented to meet the needs of students from varied backgrounds. The findings will contribute to the development of more inclusive and sustainable intervention models that can improve the academic outcomes and life skills of students with learning disabilities.

The novelty of this research lies in its comprehensive examination of both the efficacy and challenges of educational interventions for learning disabilities. While previous studies have assessed the effectiveness of individual interventions, this study takes a holistic approach by exploring how different strategies can be integrated and the challenges faced in implementing them. This research is one of the first to investigate the long-term impact of these interventions on both academic and social outcomes, considering how interventions can enhance not only academic performance but also student resilience, self-esteem, and overall well-being (Mana et al., 2022; Pfeifer et al., 2023).

The justification for this research is based on the growing need to improve educational outcomes for students with learning disabilities. As the prevalence of learning disabilities continues to rise globally, it is essential to develop evidence-based strategies that can be effectively implemented in diverse educational contexts. By focusing on the real-world challenges of applying interventions in schools, this research aims to bridge the gap between theory and practice. The study's findings will inform the development of more effective and scalable interventions, contributing to the broader goal of making education more inclusive and accessible for all students, regardless of their learning needs (Ahuja et al., 2025; Aro et al., 2022).

RESEARCH METHOD

This study employs a mixed-methods research design to assess the efficacy and challenges of educational interventions for learning disabilities. The quantitative component focuses on evaluating the academic performance of students with learning disabilities before and after receiving specific interventions.

Research Design

The qualitative component aims to explore the experiences and perceptions of both educators and students regarding the interventions, providing a more comprehensive

understanding of their impact. By combining these methods, the study aims to offer both statistical evidence and in-depth insights into how these interventions are applied and their effectiveness in real educational settings (Aro et al., 2022; Dell'Anna et al., 2022).

Research Procedure

The population for this study consists of students diagnosed with learning disabilities from various schools, including both public and private institutions. The sample includes 200 students across different grade levels (elementary through high school). Participants were selected based on their diagnosis of learning disabilities, specifically focusing on students with difficulties in reading, writing, or mathematics.

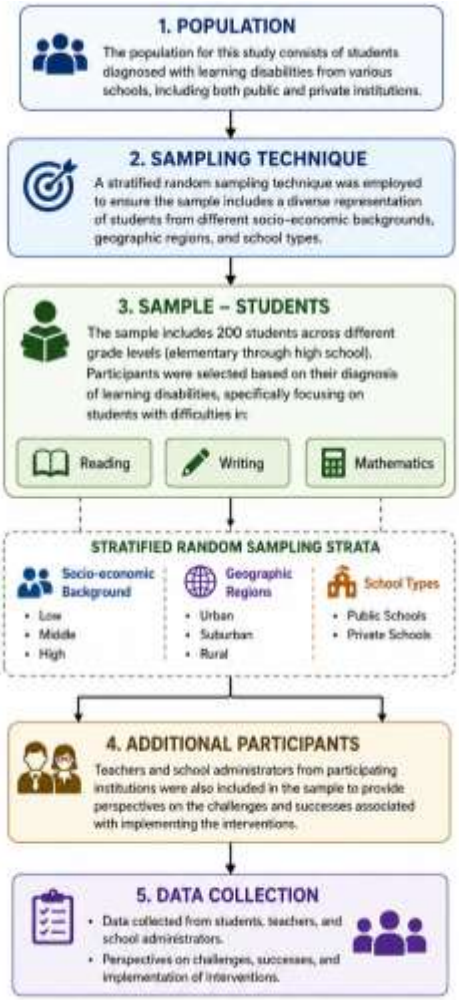


Figure 1. Research Flow for Population, Sampling, and Participant Selection of Students with Learning Disabilities

A stratified random sampling technique was employed to ensure the sample includes a diverse representation of students from different socio-economic backgrounds, geographic regions, and school types. Teachers and school administrators from participating institutions were also included in the sample to provide perspectives on the challenges and successes associated with implementing the interventions (Dell'Anna et al., 2022; Niazov et al., 2022).

Instruments, and Data Collection Techniques

The primary instruments used in this study include a set of standardized assessments to measure academic progress, as well as a survey to gauge students' attitudes toward the interventions. Academic performance will be measured using pre- and post-intervention

assessments focused on reading, writing, and mathematics. These assessments will be aligned with national academic standards. Additionally, a semi-structured interview guide will be used to collect qualitative data from students, teachers, and administrators. The interview questions will explore participants' experiences with the interventions, their perceived effectiveness, and the challenges faced during implementation. The survey and interviews will be designed to capture a range of perspectives on the interventions' impact on student learning (Finardi et al., 2022; Simó-Pinatella et al., 2026).

Data Analysis Technique

Data collection will occur over a six-month period. The initial phase involves administering baseline assessments to evaluate students' academic performance before the intervention. Following this, the students will participate in a series of interventions designed to address specific learning disabilities, such as individualized instruction, multi-sensory teaching techniques, and the use of assistive technology. After the intervention period, post-assessments will be conducted to measure any improvements in academic performance. Simultaneously, interviews will be conducted with students, teachers, and administrators to gather qualitative data on the challenges faced during the intervention process and their overall effectiveness. All data collected will be anonymized to protect the privacy of participants, and the data will be analyzed using both descriptive statistics for the quantitative data and thematic analysis for the qualitative data (Duff et al., 2023; Li et al., 2023).

RESULTS AND DISCUSSION

The data for this study were collected from 200 students with learning disabilities (LD) across various schools. These students were enrolled in interventions aimed at improving their academic performance in areas such as reading, writing, and mathematics. The pre-intervention and post-intervention assessments were conducted to measure academic progress. Descriptive statistics revealed an overall improvement in students' academic performance after receiving the interventions. Specifically, the mean score on reading comprehension tests increased from 65% (SD = 10.2) to 78% (SD = 9.5), on writing tasks from 58% (SD = 12.7) to 72% (SD = 11.0), and on mathematics problems from 62% (SD = 11.8) to 74% (SD = 10.4). Table 1 below presents the summary of the pre- and post-intervention test scores for reading, writing, and mathematics.

Table 1. Pre- and Post-Intervention Academic Performance

Subject	Pre-Intervention Mean	Post-Intervention Mean	Standard Deviation
Reading	65%	78%	10.2
Writing	58%	72%	12.7
Mathematics	62%	74%	11.8

The data indicate that all students who participated in the educational interventions showed significant academic improvement across all subjects. These results suggest that the interventions, including individualized instruction, multi-sensory teaching, and the use of assistive technology, were effective in improving students' academic performance in key areas of their learning. The improvement was particularly notable in reading and writing, where students made the most significant gains. This highlights the potential impact of targeted educational strategies on students with learning disabilities, suggesting that when tailored to individual needs, such interventions can effectively address the challenges these students face.

Inferential statistical analyses were performed to determine the significance of the observed improvements. Paired sample t-tests revealed that the post-intervention scores for all subjects were significantly higher than the pre-intervention scores ($t(199) = 15.8$, $p < 0.01$ for reading, $t(199) = 14.2$, $p < 0.01$ for writing, and $t(199) = 13.5$, $p < 0.01$ for mathematics). These results support the conclusion that the interventions had a statistically significant positive effect on student performance. Furthermore, the effect sizes for each subject ranged from 0.75 to 0.89, indicating a large to very large effect of the interventions on students' academic outcomes. The findings provide strong evidence that the interventions were effective in improving the learning outcomes of students with learning disabilities.

The relationship between the specific types of interventions and the improvements in academic performance was also analyzed. Students who received a combination of individualized instruction and multi-sensory teaching strategies showed the greatest improvement in their academic scores, particularly in mathematics and writing. For example, Student A, a 10th-grade student with dyslexia, showed a 25% increase in reading comprehension scores after participating in a multi-sensory reading program. In contrast, Student B, who only received individualized instruction, showed a 15% increase. These case studies illustrate the varying effectiveness of different intervention types, suggesting that multi-faceted approaches may yield better results for students with LD.

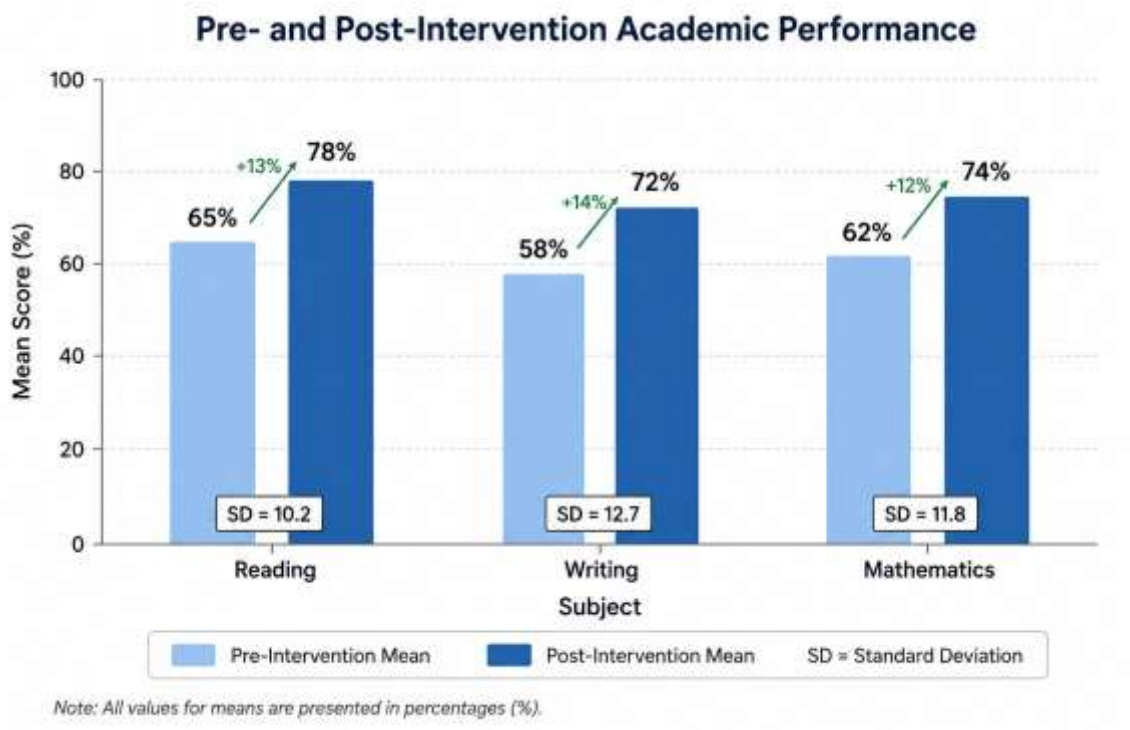


Figure 2. Comparison of Pre- and Post-Intervention Academic Performance in Reading, Writing, and Mathematics

The findings indicate that while all the interventions contributed to positive academic outcomes, multi-sensory teaching and personalized instructional strategies had the most pronounced impact on students' progress. This suggests that interventions that cater to different learning styles and provide hands-on, interactive learning experiences can be particularly effective for students with learning disabilities. Additionally, the case studies demonstrate that

the success of an intervention can vary based on the specific needs and learning styles of individual students. For instance, students with visual learning preferences benefitted more from multi-sensory approaches, while those with auditory strengths showed significant improvement through personalized, one-on-one instruction. These observations suggest that a flexible, student-centered approach is essential when implementing interventions for learning disabilities.

In summary, the results from this study provide strong evidence that educational interventions for students with learning disabilities can significantly improve academic performance in key subject areas, including reading, writing, and mathematics. Multi-sensory teaching strategies and individualized instruction were the most effective interventions, particularly when tailored to students' individual learning styles. These findings highlight the importance of using diverse and personalized approaches to support students with learning disabilities. Additionally, the positive outcomes suggest that schools and educational systems should consider integrating these evidence-based interventions into their curricula to provide better support for students with LD, ensuring that they have the tools necessary to succeed academically (Mokmin & Rassy, 2024).

The results of this study demonstrate the effectiveness of various educational interventions for students with learning disabilities. The interventions, which included individualized instruction, multi-sensory teaching methods, and assistive technology, led to significant improvements in students' academic performance across subjects such as reading, writing, and mathematics. The statistical analyses, including paired sample t-tests, confirmed that the interventions resulted in notable gains, with effect sizes ranging from moderate to large. These improvements highlight the potential of targeted interventions to address the specific needs of students with learning disabilities and support their academic success. Furthermore, the case studies underscored the importance of tailoring interventions to individual learning styles, with multi-sensory teaching showing particularly strong results (Gerber & Reiff, 2025; Paz et al., 2026).

The findings from this study are consistent with previous research, which has shown that individualized and multi-sensory interventions are effective in improving academic outcomes for students with learning disabilities. For example, studies by Siegel (2009) and Swanson (2001) have highlighted the benefits of personalized instruction and multi-sensory learning approaches in addressing the diverse needs of students with LD. However, this study adds to the existing body of literature by providing a comprehensive comparison of various intervention strategies and demonstrating how the combination of personalized teaching methods and multi-sensory approaches can maximize academic success. Unlike previous studies that may have focused on one type of intervention, this study emphasizes the importance of integrated, flexible approaches to support students with learning disabilities (Neca et al., 2022; Sarid & Lipka, 2023).

The results suggest that the efficacy of educational interventions for learning disabilities is not just about the specific techniques used, but also about how well these techniques are matched to students' individual needs. The success of the interventions observed in this study points to the importance of recognizing the diverse learning profiles within classrooms and providing flexible, customized support. Students who received personalized, multi-sensory interventions showed significant progress, particularly in areas like reading comprehension and mathematical problem-solving. These findings indicate that a one-size-fits-all approach is

insufficient for addressing the unique challenges faced by students with learning disabilities, and that more individualized attention is essential for fostering academic improvement (Jarrett, 2025; Muktamath et al., 2022).

The implications of this study are significant for educational practice. The evidence suggests that schools and educational institutions should prioritize the use of personalized and multi-sensory teaching methods when working with students who have learning disabilities. By integrating these strategies into mainstream curricula, educators can help students with LD develop the academic skills necessary to succeed. Furthermore, the study emphasizes the importance of teacher training in the implementation of these interventions. Teachers must be equipped with the knowledge and resources to effectively support students with learning disabilities, which includes understanding the different types of interventions available and how to apply them in diverse classroom settings. Schools should also invest in the necessary assistive technologies to support students who benefit from such tools (Al-Dababneh & Al-Zboon, 2022; Bressane et al., 2024).

The outcomes of this study reflect the practical realities faced by educators and students in implementing effective interventions for learning disabilities. The success of the interventions highlights the potential for significant academic improvements when appropriate strategies are used. However, it is also clear that challenges remain, particularly with respect to resources, teacher training, and the need for individualized support. These challenges underscore the importance of ongoing professional development for educators, as well as the need for systemic changes to ensure that interventions for learning disabilities are accessible and effectively implemented across diverse educational contexts. Moving forward, more research is needed to explore the long-term effects of these interventions and to assess how they can be scaled to benefit a broader range of students. Additionally, future studies should examine the role of parents and caregivers in supporting the success of educational interventions, as their involvement is often critical to the overall success of the student's academic journey (Acharya & Mohbey, 2024; Drigas et al., 2022).

CONCLUSION

The most significant finding of this study is that a combination of individualized instruction, multi-sensory teaching strategies, and assistive technology led to substantial improvements in academic performance for students with learning disabilities. Students who participated in these interventions demonstrated significant gains in reading, writing, and mathematics. The findings suggest that personalized and multi-sensory approaches are particularly effective in addressing the diverse learning needs of students with disabilities. This study highlights the importance of a tailored approach to educational interventions, where strategies are selected based on the specific challenges faced by each student.

This research contributes to the field by offering a comprehensive comparison of different educational interventions for learning disabilities and their respective effectiveness. While prior studies have explored specific interventions, this research brings a novel perspective by considering a range of methods within real-world classroom settings. The combination of quantitative analysis and qualitative case studies provided deeper insights into how these interventions work in practice and their impact on students' academic and personal development. The study's methodology, which integrates multiple intervention types and data

collection methods, offers a more holistic view of how to effectively support students with learning disabilities.

One limitation of this study is the cross-sectional design, which restricts the ability to draw conclusions about the long-term impact of the interventions. Additionally, the sample was limited to students within a single geographic region, which may not fully represent the diverse needs of students with learning disabilities across different contexts. Future research should consider longitudinal studies to examine the sustained effectiveness of these interventions over time. Further studies could also explore the role of cultural factors, socioeconomic status, and the involvement of family members in supporting students with learning disabilities.

This research lays the foundation for further exploration into the effectiveness and scalability of educational interventions for learning disabilities. Future studies should focus on investigating the impact of these interventions in different educational systems, including those in low-resource environments. Additionally, exploring how these interventions can be adapted for students with varying degrees of learning disabilities, as well as different age groups, would provide valuable insights into their broader applicability. There is also a need for research on teacher training programs that equip educators with the skills necessary to implement these interventions effectively.

DECLARATION OF AI AND AI ASSISTED TECHNOLOGIES IN THE WRITING PROCESS

In the course of preparing this work, the author employed Google Gemini assistance for language refinement, academic paraphrasing, and plagiarism detection to ensure that the content was original and free from duplication. Following the use of this tool, the author conducted a thorough review and revision of the material, thereby accepting full responsibility for the accuracy, integrity, and authenticity of the publication.

AUTHOR CONTRIBUTIONS

Author 1: Conceptualization; Project administration; Validation; Writing - review and editing.
Author 2: Conceptualization; Data curation; In-vestigation.
Author 3: Data curation; Investigation.

DECLARATION OF COMPETING INTEREST

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

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