

# Integrating Research-Based Strategies in English Language Education: A Systematic Literature Review

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Abstract. This systematic review examines the integration of research-based strategies (RBS) in language education, focusing on their role in enhancing students' academic literacy and sentence construction skills while addressing challenges and opportunities. A qualitative research design was employed to synthesize findings from existing studies, providing a comprehensive understanding of RBS's impact. Articles published between 2020 and 2024 were identified through databases such as ERIC, JSTOR, and SAGE Journals. Using the PRISMA methodology, 429,096 records were screened for relevance, accessibility, and adherence to predefined inclusion criteria, resulting in the selection of 59 studies for in-depth analysis. Findings reveal that RBS significantly improves sentence construction by fostering structured writing, peer collaboration, and iterative feedback. However, challenges such as limited research preparedness, high cognitive demands, and insufficient instructional support hinder optimal implementation. Opportunities lie in collaborative research projects and the integration of digital tools, which promote active engagement and practical applications of linguistic principles. The study underscores the necessity of curriculum redesign, targeted teacher training, and institutional support to maximize RBS's potential in language education. These strategies align with 21st-century educational goals, emphasizing critical thinking, problem-solving, and collaboration. By bridging theoretical and practical learning, RBS equips students with essential academic and professional skills. This review provides valuable insights into the effective integration of RBS in language instruction, advocating for learner-centered approaches that address implementation barriers and leverage emerging opportunities. It contributes to the understanding of how innovative, research-driven methodologies can transform language education and enhance student outcomes. This review uniquely contributes to the field by synthesizing recent evidence to provide actionable recommendations for bridging theoretical and practical aspects of language instruction, particularly emphasizing the potential of RBS in fostering 21st-century skills such as critical thinking and collaboration. Its insights support curriculum redesign, targeted teacher training, and institutional investment to overcome implementation barriers and leverage emerging opportunities. These strategies align with modern educational goals, equipping students with essential academic and professional skills.

**Keywords:** Academic literacy; Collaborative learning; Research-based strategies; Sentence construction, PRISMA.

#### 1.0 Introduction

Research-based strategies in language education have become an essential focus in enhancing students' academic literacy and overall language proficiency. Academic literacy, defined as the ability to engage with, produce, and critique complex texts, is crucial for students to succeed academically and professionally. The importance of equipping students with robust research skills, particularly in language subjects, is underscored by various

scholars who argue that traditional teaching methods may fall short in addressing diverse learners' needs (Gunderson, 2020).

Research highlights the effectiveness of incorporating research-based strategies in the language curriculum to foster inquiry-based learning. For example, the Connected Curriculum model implemented at University College London (UCL) emphasizes student participation in research as part of their learning journey, aiming to bridge the gap between teaching and research through immersive and collaborative projects (Carnell, 2017). This model integrates physical learning spaces conducive to research activities, underscoring the importance of adapting university infrastructure to support RBL effectively (Carnell, 2017)

Another study highlights how action research (AR) in language education facilitates the practical application of RBL. Chen (2020) investigated how AR supports English as a Foreign Language (EFL) teachers in Taiwan to implement communicative language teaching approaches. Findings suggest that AR helps teachers refine their understanding and practice of communicative approaches, making their pedagogy more responsive to real-world classroom challenges (Chen, 2020). This indicates that AR can be a powerful tool for enhancing both teacher and student engagement in research-based activities.

Also, studies demonstrate that research-based strategy (RBS) leads to improved learning outcomes, including higher academic achievement, positive attitudes towards learning, and enhanced critical thinking skills. Tekin and Eryılmaz Muştu (2020) conducted a quasi-experimental study demonstrating that research-inquiry-based strategies in science education improve students' academic performance, attitudes, and scientific process skills (SPS). This outcome is transferable to language education, where students engaging in RBS are more likely to develop complex language skills, such as analytical writing and oral communication, as they research and discuss topics relevant to their interests. Moreover, RBS's effectiveness also extends to collaborative learning environments. Regaña et al. (2019) found that multimedia tools enhance collaborative RBS by providing platforms for interactive learning experiences that align with constructivist and research-based teaching methods. These findings are significant for language subjects, where multimedia integration can facilitate student collaboration in exploring language use, culture, and context.

However, despite its benefits, implementing RBL in language education is not without challenges. Some studies identify the need for curriculum redesign and the provision of adequate teacher training as critical factors for successful RBL implementation (Chen, 2020; Banegas et al., 2023). Banegas et al. (2023) discuss the development of teacher identities through engagement with AR, emphasizing that effective teacher training programs must include components that enable educators to become reflective practitioners capable of guiding students through RBL processes. Additionally, institutional support in terms of infrastructure and curriculum development is essential. For example, Carnell (2017) points out that the design of physical university spaces plays a crucial role in supporting RBS, as flexible, research-oriented environments encourage student interaction and facilitate the application of research skills in a collaborative setting. Without these infrastructural supports, the full potential of RBS may not be realized, leading to discrepancies between pedagogical goals and actual teaching practices.

Overall, research-based strategies in language education are increasingly recognized as essential for improving students' academic literacy and overall language proficiency. These strategies promote critical thinking, autonomy, and active engagement, enabling students to effectively participate in and critique complex texts. Integrating research in language teaching supports a shift from teacher-centered to learner-centered education, aligning with the development of 21st-century skills such as problem-solving and collaboration. Conducting this systematic literature review is necessary to explore existing evidence, identify effective strategies, and address these challenges for successful integration of research-based learning in language subjects. It specifically wants to answer the research question, What is the student's academic literacy in research, along with: sentence construction, challenges encountered, and opportunities?

# 2.0 Methodology

## 2.1 Research Design

The study employed a systematic review with a qualitative approach to analyze the integration of research-based strategies (RBS) in language education. Guided by the PRISMA methodology, the research identified 429,096

records from databases such as ERIC, JSTOR, and SAGE Journals, narrowing them to 59 studies based on predefined inclusion criteria, such as relevance to language education, publication within 2020–2024, and availability of full-text access. Excluded materials included editorials, abstracts, and non-research articles. A qualitative narrative synthesis was conducted to identify themes and patterns, focusing on the impact of RBS on academic literacy and sentence construction, along with the challenges and opportunities associated with its implementation. This design provided a comprehensive and evidence-based analysis, offering actionable insights into the effectiveness and practicality of RBS in language instruction.

#### 2.2 Research Locale

The study is not specific to a geographical location, as it is a systematic review of existing literature rather than an empirical study conducted in a physical setting. Instead, this study draws its data from articles published in reputable academic databases such as ERIC, JSTOR, SAGE Journals, Taylor & Francis, and Science Direct. These sources comprise global research findings on the integration of research-based strategies (RBS) in language education, making the study's scope international in nature.

# 2.3 Research Participants

This study, being a systematic review, does not involve direct research participants in the traditional sense. Instead, it synthesizes data from published research articles. The "participants" in this context are the subjects described in the included studies, which focus on learners and educators involved in the application of research-based strategies (RBS) in language education. These include students learning language skills, such as sentence construction, and teachers implementing RBS in their instructional practices.

#### 2.4 Research Instrument

This study uses a data extraction framework as its primary instrument. This framework was designed to systematically collect relevant information from the selected research articles, including study objectives, methodologies, findings, and themes related to research-based strategies (RBS) in language education. Additionally, tools such as inclusion and exclusion criteria, guided by the PRISMA methodology, were used to ensure the relevance and quality of the studies reviewed. This structured approach served as the instrument to analyze and synthesize data effectively.

## 2.5 Data Gathering Procedure

The inclusion and exclusion criteria were carefully established to align with the study's objectives. Articles included were research articles published between 2020 and 2024, focusing on language and linguistics in education, and available in full-text access. Excluded items included non-research articles such as editorials, abstracts, and reports, as well as articles published before 2020 or those not related to the subject focus. The review utilized multiple reputable databases, including ERIC, JSTOR, Taylor & Francis, SAGE Journals, and Science Direct. A detailed search strategy was implemented to identify relevant literature, incorporating specific keywords related to research based strategies and language curriculum. Records were initially screened for availability and type of content, followed by an assessment of their relevance based on publication year and thematic alignment with language and linguistics.

#### 2.6 Ethical Considerations

As a systematic review, the study did not involve direct interaction with human participants or require data collection from individuals, thus minimizing ethical concerns typically associated with primary research. However, the study adhered to ethical guidelines by ensuring the integrity and credibility of its process. This included accurately citing all reviewed studies, avoiding plagiarism, and respecting the intellectual property of the original authors. The selection of articles followed a transparent and unbiased approach, guided by predefined inclusion and exclusion criteria. Additionally, no conflicts of interest were declared, and the findings were presented objectively to maintain academic integrity.

#### 3.0 Results and Discussion

#### 3.1 Student's Academic Literacy in Research

### Sentence Construction in Research Based Language Subjects

Sentence construction skills are pivotal for academic literacy and is heavily influenced by the instructional strategies employed within research-based learning environments. Effective sentence construction was consistently associated with programs that integrated research-inquiry and action research strategies These programs encouraged students to develop clear, structured, and contextually appropriate sentences, which are essential for academic writing and research crafting (Banegas et al., 2023; Chen, 2020). Based on several studies, it is demonstrated that students who engaged in research-based learning environments showed notable improvements in their sentence construction abilities. Specifically, these environments allowed students to practice organizing their thoughts coherently and express complex ideas effectively. For instance, collaborative writing tasks, where students were involved in co-constructing texts, promoted the development of well-formed sentences that adhered to academic standards (Jensen & Dikilitas, 2023; James & McCarthey, 2024). The use of feedback loops—where students received continuous guidance from peers and instructors—was also instrumental in refining their sentence-level writing skills (Tekin & Eryılmaz Muştu, 2023).

Furthermore, research-based strategies that involved collaborative writing projects and peer reviews were particularly effective in enhancing sentence construction. These activities created a space for students to practice constructing sentences collaboratively, learning from their peers and instructors while improving their command over academic language (James & McCarthey, 2024; Chen, 2020). Feedback-driven learning, where students revised their sentences based on peer and instructor comments, further solidified their skills and allowed for the development of complex sentence structures (Goodwin & Webb, 2014; Regaña et al., 2019). Additionally, a lack of sufficient instructional support to guide students in applying research-based writing techniques resulted in inconsistencies in sentence quality (Banegas et al., 2023; Regaña et al., 2019).

## Challenges Encountered in Research-Based Language Subjects

One of the primary challenges for students was a lack of foundational research skills necessary for engaging in research-based learning effectively. Many students entered language programs with limited experience in research methodologies, making it difficult for them to adapt to inquiry-driven instruction and develop strong academic writing skills (Gunderson, 2020; Regaña et al., 2019). This lack of preparedness often led to struggles with understanding how to construct well-formed sentences that met academic standards (Banegas et al., 2023; Jensen & Dikilitas, 2023). In addition, students faced challenges in synthesizing information from various sources, which is a critical skill in research-based learning. This difficulty affected their ability to form coherent and analytical sentences that integrated evidence and insights from multiple references (James & McCarthey, 2024; Tekin & Eryılmaz Muştu, 2023). The cognitive load associated with research activities often led to students writing fragmented or overly simplistic sentences, hindering their overall academic literacy development (Chen, 2020). It was further added that managing the workload associated with research-based tasks was another significant challenge for students. Balancing the demands of research projects with other academic responsibilities was often overwhelming, leading to rushed work that compromised sentence quality and overall writing coherence (Carnell, 2017; Goodwin & Webb, 2014). The pressure of deadlines in research-based learning environments limited students' opportunities to engage in multiple drafts and revisions, which are crucial for developing complex sentence structures (Jensen & Dikilitas, 2023).

Lastly, students often encountered challenges related to the availability of constructive feedback. Research-based learning requires iterative feedback to guide students in refining their writing, but large class sizes and high instructor workloads frequently limited timely feedback (Goodwin & Webb, 2014; Regaña et al., 2019). Without consistent support, students struggled to identify and correct sentence-level issues in their writing, leading to persistent errors and a slower progression in academic literacy (Chen, 2020; Gunderson, 2020).

#### Opportunities Encountered in Research-Based Language Subjects

One of the most significant opportunities identified was the increased engagement that students experienced through collaborative research projects. Working collaboratively allowed students to learn from their peers, share diverse perspectives, and build on each other's strengths. This peer-supported environment encouraged students

to practice constructing sentences that were clear and coherent, leading to improved academic writing proficiency (James & McCarthey, 2024; Tekin & Eryılmaz Muştu, 2023). Collaborative work also enabled students to receive feedback and revise their work in real time, an essential step for refining sentence structures and enhancing their overall writing quality (Regaña et al., 2019; Jensen & Dikilitas, 2023). In addition, engaging in research-based learning provided students with the opportunity to develop their critical thinking and analytical skills. This type of learning required students to synthesize information from various sources, critically evaluate findings, and present their insights in well-constructed sentences (Chen, 2020; Banegas et al., 2023). These tasks encouraged students to think beyond surface-level understanding and express complex ideas in writing that was structured, precise, and suited for academic discourse (Jensen & Dikilitas, 2023; James & McCarthey, 2024).

Moreover, research-based learning created opportunities for students to bridge the gap between theoretical knowledge and practical application. This approach helped students apply linguistic and grammatical principles learned in language subjects to real research activities, enhancing their ability to construct sentences that were contextually appropriate and well-informed (Goodwin & Webb, 2014; Regaña et al., 2019). Practical applications, such as conducting research projects or analyzing real data, provided a meaningful context for students to practice academic writing and improve their overall literacy (James & McCarthey, 2024; Chen, 2020).

#### 3.2 Discussion

The integration of research-based strategies in language subjects has demonstrated a clear positive impact on students' ability to construct coherent and complex sentences. This aligns with previous literature that underscores the value of student-centered, research-oriented instruction in fostering deeper engagement and analytical skills (Banegas et al., 2023; Chen, 2020). The collaborative and iterative feedback-driven approaches highlighted in the studies were crucial for allowing students to refine their sentence construction. These findings reinforce the argument that active learning environments, where students co-construct knowledge and receive formative feedback, promote the development of sophisticated academic writing (James & McCarthey, 2024; Jensen & Dikilitas, 2023). The emphasis on practical applications and peer-supported projects provides a strong case for incorporating more collaborative writing tasks into language curricula. The opportunity for students to engage in research projects not only aids in their understanding of sentence mechanics but also supports their ability to frame complex ideas clearly and precisely (Regaña et al., 2019; Tekin & Eryılmaz Muştu, 2023). This approach to learning fosters independence and critical thinking, essential skills for students pursuing advanced academic or professional careers.

Despite the clear benefits, the challenges faced by students in these environments cannot be overlooked. A significant barrier noted in the studies was students' varying levels of preparedness to engage in research-based learning, which affected their sentence construction skills and overall academic performance (Gunderson, 2020; Banegas et al., 2023). Many students struggled with synthesizing information and translating their findings into clear academic prose, often due to insufficient training in research methodologies and limited exposure to academic writing norms (Chen, 2020; Goodwin & Webb, 2014). Time management and the workload associated with research-based learning were also significant stressors for students. The pressure to balance research tasks with other academic responsibilities resulted in rushed work and reduced opportunities for revision and feedback, which are critical for improving sentence construction and academic literacy (Carnell, 2017; James & McCarthey, 2024). Addressing these time constraints and integrating more flexible curricula could mitigate these issues and support students' development more effectively. This study also acknowledge the psychological barriers that can impede students' progress. Factors such as anxiety, fear of failure, and a lack of confidence were commonly reported and had a notable impact on students' willingness to engage in research-based strategies (Chen, 2020; Gunderson, 2020). These findings are consistent with broader educational research, which suggests that building a supportive environment where students feel comfortable taking risks is essential for their growth (Jensen & Dikilitas, 2023; Tekin & Eryılmaz Muştu, 2023).

On the other hand, it also highlighted numerous opportunities that research-based learning presents. Collaborative projects and participatory learning were particularly effective in enhancing students' academic literacy by allowing them to engage in discussions, receive peer feedback, and learn through shared experiences (James & McCarthey, 2024; Regaña et al., 2019). These opportunities not only improved sentence construction but also fostered critical thinking and analytical skills, which are crucial for academic success and professional

readiness (Banegas et al., 2023; Tekin & Eryılmaz Muştu, 2023). The use of digital and multimodal tools in language subjects proved to be another promising avenue. Incorporating these resources facilitated interactive and adaptive learning experiences that engaged students and provided diverse methods for practicing sentence construction (Carnell, 2017; Regaña et al., 2019). These tools supported the development of academic literacy by enabling students to experiment with sentence structures and receive instant feedback, enhancing their overall writing proficiency (James & McCarthey, 2024; Jensen & Dikilitas, 2023).

The integration of research-based strategies in language education bridges the gap between theory and practice, a critical factor for comprehensive learning. By engaging students in real research activities, they are encouraged to apply grammatical and linguistic theories learned in the classroom to practical writing tasks, strengthening their sentence construction and academic literacy (Goodwin & Webb, 2014; Regaña et al., 2019). This practical application not only reinforces learning but also prepares students for future academic or career-related challenges where strong research and writing skills are essential (Chen, 2020; Banegas et al., 2023).

#### 4.0 Conclusion

This systematic review underscores the potential of research-based strategies (RBS) to enhance academic literacy and sentence construction in language education. By fostering critical thinking, collaborative learning, and practical application, RBS offers a transformative approach to language instruction. However, challenges such as insufficient research preparedness, high cognitive demands, and limited instructional support can hinder its effective implementation. To maximize the benefits of RBS, institutions should focus on redesigning curricula, providing targeted teacher training, and integrating digital tools to support innovative teaching practices. Addressing these barriers can create a more supportive and flexible learning environment, empowering students to develop essential academic and professional skills.

The findings of this review have significant implications for the field of language education. By bridging the gap between theory and practice, RBS aligns with the goals of 21st-century education, equipping learners with the competencies needed to thrive in diverse academic and professional contexts. This review not only highlights effective strategies but also advocates for systemic changes to address implementation challenges and capitalize on emerging opportunities, offering valuable insights for educators, policymakers, and researchers in advancing Language education practices.

## 5.0 Contributions of Authors

The author affirms sole authorship and responsibility for the conception, design, analysis, and interpretation of this research.

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### 7.0 Conflict of Interests

The author declares no conflict of interest regarding the publication of this research. All findings and interpretations presented in this study are the sole work of the author and have been conducted impartially to ensure academic integrity and objectivity

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