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Critical Discussion on Impact of Classroom Physical Environment on Early Grade Literacy Outcomes

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#### **Abstract**

The physical environment of the classroom plays a crucial role in shaping the academic success or challenges that students encounter, particularly in developing foundational literacy skills. This study focuses on how the physical classroom environment, encompassing a variety of educational resources such as reading materials, equipment, settings, and instructional components, influences literacy outcomes, especially in early grades. Many students enter classrooms with varying levels of exposure to literacy. Those with prior exposure often benefit more effectively from teacher instruction, while students lacking early literacy exposure may struggle to engage with literacy content. The primary aim of this paper is to investigate the impact of classroom physical settings on literacy outcomes during the early stages of education, drawing insights from previous research and exploring the essential facilities necessary to support literacy development. The literature review synthesizes findings from previous studies, highlighting the significant role of the physical classroom environment in fostering literacy skills among young learners. Research consistently demonstrates that the availability of basic facilities within classrooms, such as adequate reading and writing materials, varied instructional tools, and conducive physical layouts, positively correlates with improved literacy outcomes. These elements create an environment that supports active learning and engagement with literacy materials, thereby enhancing students' literacy development. Moreover, the paper emphasizes the importance of integrating instructional strategies tailored to diverse literacy backgrounds. Teachers play a pivotal role in adapting their instructional methods to accommodate students with varying levels of literacy exposure, ensuring equitable access to learning opportunities. By leveraging the physical classroom environment effectively, educators can create inclusive learning spaces that promote literacy acquisition and proficiency among all students. It advocates for the provision of essential facilities and resources that facilitate effective teaching and learning practices. By investing in supportive physical environments and employing inclusive instructional strategies, schools can enhance the literacy skills of early grade students, laying a strong foundation for their academic success and future learning endeavors.

Keywords: Classroom Environment, Literacy Development, Early Education, Educational Resources

**JEL Codes:** I21, I23, L31

#### 1. INTRODUCTION

The ability to listen, understand, read, write, and process information is fundamental to a student's educational development and eventual growth into an educated adult. Research conducted by the National Institute of Child Health and Human Development (NICHD) in 2000 highlights the critical role early exposure to literacy plays in a child's ability to acquire essential literacy skills. The study found that students who lacked exposure to literacy during early childhood, or who did not benefit from parental involvement, often enter the classroom at a disadvantage. They are less prepared to develop key literacy skills such as phonemic awareness, fluency, vocabulary, and comprehension. Without early and consistent literacy experiences, these students may struggle with foundational skills that are crucial for their academic success. This gap in early literacy exposure can lead to difficulties in acquiring and mastering the skills necessary for effective reading and writing. As a result, many students enter formal education settings lacking the basic literacy skills needed to thrive, which can hinder their overall educational progress and achievement (Rasheed, 2020; Iqbal & Nasir, 2018; Riaz & Safdar, 2018; Mahmood & Naz, 2018; Barkley & Major, 2020; O'Keefe et 2017; Kanfer et al., 2017; Motuma, 2022; Smith, 2019; Lucey, 2018; Fang et al., 2023; Richardson & Ball, 2024; Makovec et al., 2023; Wellhöfer & Lühken, 2022). The study by Higgins, Boone, and Lovitt (2002) revealed that poor readers in the early grades often continue to struggle with reading and writing skills over time. Specifically, it was found that 88% of students who were identified as poor readers in first grade remained poor readers by the fourth grade. This persistence in reading difficulties underscores the challenges faced by students who do not receive adequate support and intervention early in their educational journey. The findings are supported by the NICHD (2002),

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highlighting the importance of addressing reading challenges early to improve literacy outcomes and prevent long-term academic struggles.

Over the past three decades, a wealth of research has explored various aspects of reading skills, reflecting its central role in early literacy development. Despite this extensive focus, relatively fewer studies have zeroed in on pre-writing and writing skills, as well as the ability of young students to independently construct texts. This gap is notable given the foundational importance of these skills in the broader literacy framework. Research such as Badger and White's (2000) investigation into writing processes and Panofsky et al.'s (2005) study on text construction have begun to address this gap. Badger and White's work delves into the stages and strategies involved in writing development, providing insights into how students progress from initial writing attempts to more sophisticated text creation. Similarly, Panofsky et al. examine the strategies that young learners use to construct texts independently, offering valuable perspectives on the cognitive and instructional processes involved.

Freebody's (2007) research further complements this body of work by exploring how early writing skills are intertwined with broader literacy development. His findings emphasize the importance of integrating writing instruction with reading activities to foster a more holistic approach to literacy education. Freebody's contributions underscore that early writing development is not an isolated skill but is closely linked to reading comprehension and overall language proficiency. The existing research indicates that while there is a robust understanding of reading skill acquisition, there is a need for more focused studies on pre-writing and writing skills. Early writing abilities are critical for academic success and cognitive development, and a deeper understanding of how students develop these skills can inform better instructional practices. Further research should aim to fill this gap by investigating how young students develop writing competence, including the role of instructional methods, cognitive strategies, and environmental factors. Exploring how students learn to plan, draft, revise, and finalize their texts can provide educators with valuable insights into effective teaching practices that support early writing development (Riaz & Safdar, 2018; Mahmood & Naz, 2018; Barkley & Major, 2020; O'Keefe et 2017; Kanfer et al., 2017; Motuma, 2022). Research into writing instruction has largely revolved around two prominent approaches: the genre approach and the process writing approach. Each of these approaches offers distinct perspectives and methodologies for teaching writing, shaping the way educators address various aspects of writing development.

The process writing approach emphasizes the iterative stages involved in writing, including planning, drafting, revising, and editing. This approach is deeply rooted in the development of linguistic learning skills and is designed to enhance students' ability to produce coherent and polished written texts. Key elements of this approach include fostering students' abilities to brainstorm ideas, organize their thoughts, draft their texts, and revise their work based on feedback and self-reflection. By focusing on these stages, the process writing approach aims to build students' writing competence through active engagement with the writing process itself. However, while the process writing approach is robust in promoting these practical aspects of writing, it has been critiqued for its relative neglect of other important areas of writing instruction. Specifically, the development of linguistic knowledge, including the understanding of text structure and grammar, tends to receive less emphasis. This can be a limitation, as a well-rounded writing education also requires a solid grasp of grammatical rules and text organization to ensure that students can produce not only well-structured but also grammatically accurate texts. In contrast, the genre approach focuses on teaching students about different types of texts and their specific conventions, structures, and purposes. This approach highlights the importance of understanding various genres and adapting writing techniques to meet the expectations of different audiences and contexts. Through this approach, students learn to write in various genres, such as narratives, expository texts, and persuasive essays, each with its own set of conventions and stylistic features (Rasheed, 2020; Iqbal & Nasir, 2018; Riaz & Safdar, 2018; Mahmood & Naz, 2018; Barkley & Major, 2020; O'Keefe et 2017; Kanfer et al., 2017; Motuma, 2022; Smith, 2019; Lucey, 2018; Fang et al., 2023; Richardson & Ball, 2024; Makovec et al., 2023; Wellhöfer & Lühken, 2022). The genre approach can complement the process writing approach by providing students with a broader context for their writing practices. Understanding genre-specific structures and purposes can help students apply their drafting and editing skills more effectively, resulting in writing that is not only fluent but also appropriately tailored to specific genres. Both approaches offer valuable insights into the teaching of writing, and an integrated approach that combines the strengths of each could provide a more comprehensive framework for developing students' writing skills. While the process writing approach enhances practical writing skills, the genre approach enriches students' understanding of text types and conventions. Together, these approaches can help educators address both the mechanics and the context of writing, leading to more effective writing instruction and better outcomes for students.

To enhance literacy skills among early grade students, several effective strategies can be employed. Setting clear, achievable goals for writing is crucial, as it helps students understand what is expected of them and provides a sense of direction (Graham & Perin, 2007). Alongside setting goals, providing models of exemplary texts and writing samples can illustrate the standards and qualities of good writing, serving as references for students to emulate effective writing techniques and structures (Department of Education and Training, 2010). Incorporating a variety of writing activities is another key strategy to support literacy development. Engaging students in sentence combining, for example, helps them improve their ability to construct complex sentences by merging shorter sentences into more elaborate ones (Graham & Perin, 2007). This technique promotes grammatical understanding and enhances sentence fluency. Teaching students to summarize texts is also valuable, as it helps them practice extracting and condensing key information, which aids in comprehension and reinforces their understanding of text structures and main ideas (Badger & White, 2000).

Integrating word processors into writing instruction can make the writing process more engaging for students while also helping them develop technical skills. The use of word processors allows students to practice typing, formatting, and editing their work, making the writing process more interactive and accessible (Department of Education and Training, 2010). Collaborative writing activities, such as group projects or peer reviews, foster collaboration and peer learning. These activities enable students to share ideas, provide feedback, and learn from one another, further supporting their writing development (Graham & Perin, 2007). By implementing these strategies, educators can create a dynamic and supportive learning environment that promotes literacy skills effectively among early grade students. These approaches not only support the development of writing skills but also contribute to a broader literacy framework that includes reading comprehension and language use (Freebody, 2007; Panofsky et al., 2005).

Teaching literacy is inherently complex and nuanced, as it involves addressing a broad spectrum of learning needs and styles. There is no one-size-fits-all strategy for teaching reading and writing effectively, and a single method may not be adequate to meet the diverse literacy requirements of students. Educators are encouraged to adopt a range of instructional practices tailored to the specific literacy needs of their students to maximize their learning outcomes (Department of Education and Training, 2010). In addition to the multifaceted nature of literacy instruction, beginning teachers often grapple with the challenges of classroom management. Research over the past fifty years has consistently highlighted that classroom management is a critical component of effective teaching. Studies have shown that classroom management is a more significant factor in educational success than even student achievement (Rogers & Freiberg, 1994; Veenman, 1984; Jones & Jones, 2004). This underscores the importance of establishing and maintaining an organized, productive classroom environment, which can significantly impact students' learning experiences and overall academic performance.

Knowledge of the alphabet is widely regarded as a fundamental symbol of literacy, serving as a cornerstone for early reading and writing skills. The primary aim of preschool and early school education is to help students acquire these essential skills, setting the stage for their future literacy development. However, there is limited consensus among educationists regarding the most effective methods for fostering alphabet knowledge in early learners. Research indicates that various approaches may be employed, but a unified strategy for teaching alphabet knowledge effectively remains elusive (Piasta & Wagner, 2010). This lack of agreement highlights the need for ongoing exploration and adaptation in literacy instruction to best support young learners' development. Teaching reading and writing skills is both fundamental and challenging. Researchers widely agree that creating an engaging and inviting classroom environment is crucial for effective literacy instruction. A well-organized literacy classroom should feature attractive displays of books, showcasing their covers to pique students' interest. Key elements of this environment include dedicated reading, writing, and drawing centers, which are integral to fostering literacy skills. Well-managed reading centers are particularly effective in stimulating children's interest in acquiring reading skills. Teachers should arrange student furniture to ensure accessibility and comfort, as comfortable seating encourages students to spend more time exploring and reading books, either independently or with peers. This thoughtful arrangement of physical space supports and enhances the overall literacy learning experience.

# 2. LITERATURE REVIEW

The physical environment of the classroom is vital in fostering literacy growth among children. Research indicates that the arrangement of a classroom can significantly impact the amount of time students spend with books. Morrow and Weinstein (1986) and Neuman and Roskos (1997) suggest that classrooms designed with accessible and appealing reading areas promote more engagement with reading materials (IRA & NAEYC, 1998, p. 4). To create such an environment, educators should ensure that books are prominently displayed with their covers visible, which can attract students' interest and curiosity. Incorporating dedicated reading, writing, and drawing centers within the classroom allows students to explore different aspects of literacy in a hands-on manner. These centers should be organized in a way that encourages students to interact with the materials individually or with peers, fostering both independent and collaborative learning experiences. Comfortable and accessible furniture is another essential component. When students have cozy, well-arranged seating options, they are more likely to spend time immersed in books. This not only enhances their reading skills but also builds a positive association with reading activities. Teachers should strategically arrange the classroom to minimize distractions and maximize students' focus on literacy tasks. In addition to the physical setup, the atmosphere of the classroom should be inviting and stimulating. Colorful decorations, thematic displays, and interactive bulletin boards can create an engaging environment that inspires students to read and write. By creating a welcoming and literacy-rich classroom environment, teachers can support the development of essential literacy skills, laying a strong foundation for students' academic success.

Studies also indicate that the written language used for labels and signs in the natural environment enhances reading strategies for students. McGee, Lomax, and Head (1988), along with Neuman and Roskos (1993), emphasize that these signs and labels, often referred to as environmental print, play a crucial role in helping students make connections between the information they already know and the new information presented to them through writing (IRA & NAEYC, 1998). Environmental print serves as a bridge between familiar concepts and new literacy skills. When students see labels, signs, and written instructions around them, they begin to understand the practical applications of reading and writing. This form of print exposure helps in developing decoding skills, word recognition, and comprehension, as students associate written words with objects, actions, and concepts in their environment. Moreover, literacy-rich environments allow students to see the connection between literacy and the real world. When classrooms are designed to include environmental print, students are provided with constant,

meaningful exposure to written language. This exposure not only reinforces their learning but also shows them how literacy is used in everyday life. For example, labels on classroom objects, instructional posters, and signs indicating different activity areas help students navigate their surroundings and understand the purpose of written language in a functional context.

Creating a literacy-rich environment involves integrating a variety of written materials that reflect the diverse uses of language. Teachers can enhance this environment by incorporating magazines, newspapers, menus, maps, and other real-world texts into classroom activities. This diversity of materials helps students understand that literacy is not confined to books alone but is a vital part of communication and information in their daily lives. A literacy-rich environment, supported by the strategic use of environmental print, plays a significant role in developing students' reading and writing skills. It enables them to make meaningful connections between their existing knowledge and new information, fostering a deeper understanding of the practical applications of literacy. By creating such environments, educators can significantly enhance the literacy development of their students, preparing them for both academic success and real-world literacy demands. Many teachers, especially beginning teachers, cite classroom management as an ever-present concern. This challenge is often highlighted in the literature, with researchers such as Rogers and Freiberg (1994), Veenman (1984), and Jones and Jones (2004) emphasizing its significance. Classroom management is not only about maintaining order but also creating an environment conducive to learning where students feel safe, respected, and engaged. Effective management strategies are crucial for facilitating academic achievement and fostering positive student behavior.

A meta-analysis of the past 50 years of classroom research identified classroom management as the most important factor, even above student aptitude, affecting student learning (Wang, Haertel, & Walberg, 1994). This finding underscores the critical role that classroom management plays in the educational process. Effective classroom management creates an environment where students can focus on learning and teachers can deliver instruction without frequent interruptions. The ability to manage a classroom effectively can significantly enhance student engagement and academic performance, making it a fundamental skill for educators. Contrary to popular belief, classroom management is not an innate gift bestowed upon some teachers. While it's true that some educators adapt to classroom management techniques more easily, making it appear as if they possess a natural talent, classroom management is fundamentally a skill that can be taught and refined through practice. This perspective highlights the importance of providing teachers with comprehensive and practical methods for improving their classroom management abilities. Despite extensive literature on the topic, there has been insufficient emphasis on helping teachers understand the complexities of effective classroom management and the relationships among various strategies (Jones & Jones, 2004). Many teachers experiment with different classroom management ideas and strategies, but without a solid foundation and understanding, these efforts may not be as effective as they could be. Therefore, structured training and continuous practice are essential for teachers to achieve proficiency in managing their classrooms.

### 3. DISCUSSION

Reflective practice is an emerging approach in teacher professional development. This method involves the critical analysis of one's own teaching practices to identify and address contradictions between underlying beliefs and actual practices, ultimately aiming to become a more responsible and effective educator. Reflective teachers consciously and continuously think about and assess their own methods and strategies, which fosters their growth as professional educators. By engaging in reflective practice, teachers can make informed changes to improve their teaching, enhance student learning, and develop a deeper understanding of their own professional identity and responsibilities. The purpose of this paper was to explore the perceptions of prospective teachers and school teachers regarding the challenges involved in engaging in reflective practices. It delved into the various opportunities that need to be provided to teachers to enable their involvement in reflective practices. The paper also examined how to establish rules and guidelines that would ensure the consistent and effective participation of teachers in these practices. Another significant challenge discussed was the allocation of time for teachers to reflect on their practices amidst their busy schedules. Additionally, the paper highlighted the importance of leveraging colleagues' input, allowing teachers to incorporate feedback and see their practices through different lenses, thereby enhancing learning through interpersonal relationships. The study employed a descriptive survey method to gather data from 120 teachers, evenly divided between 60 school teachers and 60 prospective teachers. The findings revealed that the majority of respondents felt they lacked the time to engage in reflective practices. Additionally, both groups exhibited insufficient knowledge about reflective practices. Despite these challenges, most respondents recognized the value of reflective practices in allowing them to critique their own teaching methods. There was a consensus among respondents on the need for training to effectively engage in reflective practices. To facilitate reflective practices, teachers should formulate a set of guidelines. These guidelines should cover meeting schedules, the duration of meetings, and the discussion agenda. It is also essential to designate a group leader for these sessions, with the possibility of rotating leadership to avoid issues of inferiority or superiority among members. This rotation can help create a more balanced and inclusive environment, encouraging active participation and shared responsibility.

# 4. CONCLUSION

A literacy-rich classroom serves as a vital foundation for developing essential literacy skills by providing students with an intentional, purposeful, and immersive experience with language. In such environments, teachers actively demonstrate the practical use and value of language, creating a setting where literacy is not just an abstract concept but a tangible and engaging

part of daily learning. For students who come to school with varying levels of literacy exposure, this environment offers structured support that helps bridge gaps in their knowledge. Those who may have limited access to literacy resources outside of school benefit significantly from the targeted instruction and rich linguistic interactions provided by educators. This is particularly crucial for students who have not had the opportunity to engage with literacy in their everyday lives, as they rely on the classroom environment to gain foundational skills. In a literacy-rich setting, the focus extends beyond basic reading and writing. Teachers design activities that promote phonics awareness, which helps students understand the relationship between letters and sounds, and fluency, which involves reading with speed and accuracy. Vocabulary development is emphasized to enhance students' word knowledge, while comprehension activities ensure that students can understand and interpret texts effectively. Furthermore, a literacy-rich classroom encourages students to engage with texts in meaningful ways. By integrating a variety of reading materials, writing exercises, and interactive activities, students are exposed to diverse language experiences that enrich their understanding and use of language. This immersive approach supports the development of critical literacy skills and prepares students for more advanced literacy tasks as they progress through their education. Overall, the literacy-rich classroom not only introduces students to fundamental literacy skills but also provides ongoing support and reinforcement, enabling them to build confidence and proficiency in their reading and writing abilities. This comprehensive approach ensures that students, regardless of their initial literacy levels, are equipped with the skills needed to succeed academically and in their broader communication endeavors.

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