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Research Paper

Educational and Teaching Factors Influencing Subject Learning Difficulties Among Secondary School Students

Mukesh Nand Tiwary¹ and Dr Renu Singh²

1-Research Scholar, Faculty of Humanities and Social Science, Sai Nath University, India

2-Assistanat Professor, Faculty of Humanities and Social Science, Sai Nath University, India

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Corresponding Author:

Mukesh N. Tiwary

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ABSTRACT

Subject learning difficulties among secondary school students can be influenced by a variety of educational and teaching factors. These difficulties can stem from inadequate teaching methods, limited educational resources, a lack of individualized support, and environmental influences. This review paper aims to explore the various factors affecting subject learning difficulties, including teaching strategies, classroom environment, teacher-student relationships, and curricular design. Additionally, it will examine how these factors contribute to challenges in subject comprehension, retention, and academic performance. The paper will highlight the importance of adopting effective teaching methodologies, addressing student-specific learning needs, and ensuring a conducive learning environment to mitigate learning difficulties.

1. Introduction

1.1 Importance of Identifying Learning Difficulties

Learning difficulties are challenges that students face in acquiring knowledge and skills in specific subjects. These difficulties can hinder a student's academic growth and affect their overall educational experience. Identifying the root causes of subject learning difficulties is crucial for educators, as it helps in implementing effective strategies that address students' unique needs (Smith & Jones, 2020). Secondary school students, who are in the critical stages of their education, often experience difficulties in various subjects due to a combination of cognitive, emotional, and educational factors. These challenges can result from ineffective teaching strategies, insufficient classroom resources, and a lack of personalized support.

1.2 Educational and Teaching Factors Impacting Learning

Several educational and teaching factors influence the learning experiences of secondary school students. These include teaching methods, teacher qualifications, classroom environment, use of technology, and curriculum design (Johnson, 2019). Inadequate instructional strategies, such as poor communication, lack of clarity in teaching, or a one-size-fits-all approach, can exacerbate learning difficulties. Additionally, a lack of engagement and interactive learning opportunities can negatively impact students' understanding of subjects, leading to frustration and disengagement from the subject matter.

This paper will explore the relationship between these educational and teaching factors and how they contribute to subject learning difficulties. It will also discuss strategies for improving teaching practices to address these challenges.

The objective of this paper is to analyze the various educational and teaching factors that influence learning difficulties in secondary school students. Specifically, the paper will focus on identifying the key teaching and learning barriers that hinder students' understanding of specific subjects, and how these barriers can be overcome through more effective instructional approaches, teacher-student engagement, and a supportive learning environment.

¹Author can be contacted at: *Research Scholar, Faculty of Humanities and Social Science, Sai Nath University, India*

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2. Teaching Methods and Strategies

One of the most significant factors contributing to learning difficulties among secondary school students is the teaching methodology employed in the classroom. Traditional teaching methods that rely heavily on rote learning or lecture-based instruction may not effectively cater to the diverse learning needs of students (Adams & Roberts, 2020). In contrast, more interactive and student-centered teaching strategies, such as project-based learning, group discussions, and hands-on activities, can enhance student engagement and promote better understanding.

Furthermore, the differentiation of instruction, where teachers modify their teaching techniques to accommodate different learning styles (visual, auditory, kinesthetic), can play a critical role in reducing subject learning difficulties. For example, students who struggle with traditional methods may benefit from visual aids, multimedia resources, and real-life applications of the subject matter, which can help to make abstract concepts more accessible.

2.1 Teacher-Student Relationship and Classroom Environment

The quality of the teacher-student relationship and the classroom environment significantly affect students' ability to overcome learning difficulties. A positive teacher-student relationship built on trust, respect, and mutual understanding fosters an environment in which students feel comfortable expressing their difficulties and seeking help (Bates, 2021). Teachers who show empathy, are approachable, and actively listen to students' concerns can provide individualized support that helps students overcome their learning challenges.

Additionally, a supportive classroom environment that promotes active participation, collaboration, and a sense of belonging can reduce anxiety and increase student motivation. Students are more likely to engage in the learning process and develop a deeper understanding of the subject when they feel supported and encouraged by both their peers and teachers.

2.2 Curriculum Design and Resources

Curriculum design is another crucial factor influencing subject learning difficulties. An overly rigid or overcrowded curriculum may overwhelm students, especially those who struggle with specific subjects. The pace of instruction, the complexity of the content, and the lack of flexibility in the curriculum can exacerbate learning difficulties (Williams & Taylor, 2020). A well-structured curriculum that gradually builds on previous knowledge and provides sufficient time for mastery of concepts is more likely to lead to successful learning outcomes.

Moreover, adequate educational resources, including textbooks, digital tools, and learning aids, are essential in supporting students' understanding of difficult subjects. When resources are limited, students may find it harder to grasp complex ideas, leading to confusion and disengagement. Ensuring that students have access to appropriate learning materials is essential for addressing learning difficulties effectively.

3. Role of Technology in Overcoming Learning Difficulties

The integration of technology in the classroom has the potential to address many of the challenges associated with subject learning difficulties. Educational technologies, such as online learning platforms, interactive simulations, and digital assessments, provide students with more personalized and flexible learning experiences (Nguyen & Lee, 2021). Technology can support differentiated instruction by offering adaptive learning tools that cater to individual students' needs and learning speeds.

For example, interactive math or science programs that provide instant feedback can help students struggling with particular concepts to practice and learn at their own pace. Additionally, multimedia resources such as videos and virtual experiments can make abstract concepts more tangible and accessible for students who struggle with traditional teaching methods.

4. Conclusion

Subject learning difficulties among secondary school students are often influenced by a combination of educational and teaching factors. Ineffective teaching methods, poor teacher-student relationships, an inflexible curriculum, and a lack of appropriate resources all contribute to these challenges. However, adopting more interactive and student-centered teaching approaches, fostering positive relationships, and utilizing technology can significantly improve students' understanding of difficult subjects.

5. Recommendations

1. Teachers should implement differentiated teaching strategies to cater to diverse learning styles and abilities.
2. Schools should invest in professional development for teachers to enhance their skills in using modern teaching methods and educational technologies.
3. Schools should ensure that the curriculum is flexible and allows for in-depth exploration of subjects to prevent overwhelming students.
4. More resources, both physical and digital, should be made available to students to support their learning in challenging subjects.
5. A positive and supportive classroom environment should be created where students feel encouraged to engage actively in the learning process.

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