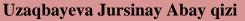
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THE ROLE OF PEDAGOGICAL TECHNOLOGIES IN MATHEMATICS LESSONS



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Annotation: This article highlights the theoretical foundations and practical significance of using pedagogical technologies in primary school mathematics lessons. It provides information about the essence of pedagogical technologies, their role in the process of students' learning, and their importance in increasing the effectiveness of education. In addition, methodological recommendations are given on the use of information and communication technologies, interactive methods, game-based and project-based learning technologies in mathematics lessons. The article can serve as practical support for teachers in organizing the educational process based on modern technologies.

Key words: primary education, mathematics lessons, pedagogical technologies, information technologies, interactive methods, game-based technology, educational effectiveness, methodology.

Introduction

Today, one of the main tasks of pedagogy is to modernize the educational process, to develop independent thinking, logical reasoning, and practical skills in students. In particular, the effective use of pedagogical technologies in primary school mathematics lessons activates students' learning process and increases their interest in the subject.

According to UNESCO's definition, pedagogical technologies are understood as an educational process that considers the goals, content, methods, tools, and results of teaching as a unified system, designed in advance and aimed at achieving specific outcomes.

Main Part

The Essence of Pedagogical Technologies

Pedagogical technologies cover modern methods, forms, and tools of teaching. The following technologies are of great importance in teaching mathematics to primary school students:

- Information and Communication Technologies (ICT): effective organization of education through multimedia presentations, e-textbooks, and online tests.
- **Interactive methods:** developing students' independent thinking activities through methods such as "Brainstorming", "Cluster", "Insert".
- **Project-based learning technology:** developing small projects based on mathematical tasks and presenting the results.
- Game-based technologies: increasing students' interest in the subject through didactic games and mathematical competitions.



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The Importance of Pedagogical Technologies in Mathematics Lessons

The psychological characteristics of primary school students require them to acquire knowledge mainly through practical activities, game elements, and visual materials. Therefore, the use of pedagogical technologies helps to:

- ensure solid acquisition of knowledge;
- develop independent and creative thinking in students;
- form collaboration skills;
- ensure interdisciplinary integration.

For example, when teaching the topic of **fractions**, the use of various graphic illustrations through multimedia tools helps students understand the topic more easily.

Methodology of Using Pedagogical Technologies

For the effective use of pedagogical technologies, the teacher must carry out the following stages:

- 1. **Preparation stage** selecting appropriate methods and technologies for the topic, designing lesson plans and visual aids.
- 2. **Practical stage** applying the selected technology during the lesson (multimedia presentation, games, tests, group work).
- 3. **Assessment stage** evaluating students' knowledge through tests, Q&A, and practical tasks.
- 4. **Analysis stage** determining the effectiveness of the lesson, analyzing the results, and drawing conclusions.

Conclusion

The use of pedagogical technologies in primary school mathematics lessons increases students' learning efficiency, develops their ability to think independently and reason logically. Through the rational application of pedagogical technologies in the learning process, students perceive mathematics not only as an academic subject but also as a vital necessity in real life.

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