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IMPROVING THE EFFECTIVENESS OF TEACHING LOGICAL PROBLEMS IN PRIMARY SCHOOL

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Abstract: This article highlights the theoretical and practical aspects of improving the effectiveness of teaching logical problems to primary school students. Through logical problems, pupils' thinking, independent reasoning skills, and creativity are developed. In addition, methodological recommendations are provided on how to enhance learning efficiency by using game technologies, interactive methods, and information and communication tools.

Keywords: primary education, mathematics, logical problems, effectiveness, methodology, development of thinking, interactive methods, game technologies.

Introduction

One of the main tasks of mathematics education in primary school is to develop students' logical thinking and to teach them how to solve different types of problems. Logical problems, in particular, encourage pupils to be consistent, patient, and independent thinkers. Therefore, organizing the methodology of teaching logical problems effectively is considered an important part of the educational process.

Main Part

1. The significance of teaching logical problems

- Develops pupils' cognitive thinking;
- Shapes analytical and comparative reasoning;
- Encourages finding various solution strategies;
- Strengthens independent and creative approaches.

2.Factors for improving effectiveness

To improve the effectiveness of teaching logical problems, the following factors are essential:

- Providing tasks in a **sequence from simple to complex**;
- Using **visual aids** (pictures, tables, diagrams);
- Engaging pupils in **group work** to encourage collaboration;
- Organizing logical tasks in a **game-based form** to make learning interesting;
- Applying **information and communication technologies** (multimedia presentations, online quizzes).

3. Practical methods

- Increasing competitiveness by using elements like *"Who will solve first?"*;
- Linking tasks with real-life situations;
- Applying interactive methods appropriate to the age characteristics of pupils.

4.Example of a logical problem

There are 3 apples in one box, 2 more in the second box than in the first, and one fewer in the third box than in the second. How many apples are there in total? — Such tasks improve students' skills in analysis and comparison.

Conclusion

Teaching logical problems effectively in primary school plays an important role in developing students' reasoning, guiding them towards independent thinking and creativity. By carefully selecting methods and incorporating game and interactive technologies, teachers can significantly increase the effectiveness of the learning process.

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