

EXTRACURRICULAR ACTIVITIES AND THEIR ROLE IN THE EDUCATION SYSTEM, THEIR IMPACT ON STUDENT MOTIVATION AND LEARNING EFFECTIVENESS

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Mathematics is an important field that requires not only theoretical knowledge, but also practical solution skills. While the knowledge gained in the lessons is sufficient, in many cases students need additional training to master and practice the issues. Such training is of great importance in strengthening the understanding of students and developing the skills of solving issues. Below we will reflect on the most effective types of extracurricular activities in mathematics and their advantages.[1]

As you know, now the medium-specific type of education is available in all schools. In this case, it is recommended to conduct training in small groups of 3-4 students once a week. Extracurricular activities are usually more applicable to additional types of activities, which are mainly focused on:

1. Interest in mathematics and its practices in students;

2. As you know, now the medium-specific type of education is available in all schools. In this case, it is recommended to conduct training in small groups of 3-4 students once a week. Extracurricular activities are usually more applicable to additional types of activities, which are mainly focused on:

1. Interest in mathematics and its practices in students;

2. Expand students' knowledge of mathematics based on the program;

3. Develop a culture of mathematical thinking;

4. Teaching students to work with popular science literature in mathematics;

5. Expanding the imagination of students about the historical-scientific value of mathematics, the role of the school of mathematics in World Science. [4-6]

Some of these goals are achieved during class, but due to limited class time, most of them must be implemented in extracurricular activities.

In the school experience, the following types of extracurricular activities are carried out with students younger than mathematics:

1. Interesting math hours;

2. Organization of mathematical circles;

3. Practice;

4. Organization of a mathematical angle;

5. Conducting math evenings;

6. Holding the Mathematics Olympiad in schools.[2-3]

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1. Math clubs and clubs

Math clubs and clubs offer students the opportunity to gain a deeper knowledge of mathematics beyond the classroom. During these sessions, students, together with their peers, discuss complex issues and become interested in solving them. By working in a group, the process of mathematical thinking develops rapidly, and the possibility of approaching issues from different points of view expands.

Advantages:

The possibility of solving issues in different ways through mutual exchange of ideas;

Develop logical and creative thinking in students;

Assimilate new knowledge through practice.

2. Online platforms and math games

In recent years, online platforms have significantly alleviated the study of mathematics. Through special applications and sites, readers can solve various types of issues and test their knowledge. Also, through Math Games, knowledge is strengthened in the way of play, which helps students to increase their interest and more easily master complex topics.

Advantages:

Quick and comfortable practical training;

Individual approach to solving issues;

The opportunity to learn mathematics fun and efficiently through the game.

3. Dealing with worthy issues (problem-based learning)

The method of learning through worthy issues is very effective in the development of mathematical skills. Students expand their knowledge by solving complex mathematical problems adapted to life situations. This method encourages students to solve real-world problems, and they can in many cases associate abstract theory with practice.

Advantages:

Development of Real problem solving skills;

Practical application of abstract theoretical knowledge [5]

4. Private tutoring

Working with a private tutor allows students to consolidate their knowledge in addition to the lesson on the basis of an individual approach. The tutor can identify the strengths and weaknesses of the student, work in those directions and offer training appropriate to their specific needs. In this method, students delve deeper into mathematics and have the opportunity to fill gaps in their knowledge.

Advantages:

Personal approach to the reader;

Identify weaknesses and develop them;

Explaining complex topics in accordance with the rhythm of the reader.

5. Learning through projects (project-based learning)

In the process of preparing projects on mathematics, students apply the knowledge gained in practice. This method develops the students' ability to apply mathematical concepts to real life and teaches them to independently solve complex problems. Since learning through projects is often associated with group work, this method also develops mathematical communication skills.

Advantages:

Applying mathematical knowledge to real-life situations;

Developing creative thinking;

Strengthening group collaboration.[2-7]

Conclusion: extracurricular activities are very important to deepen understanding in Mathematics and improve problem solving skills. Methods such as learning through circles, online platforms, private tutoring, and projects provide students with the opportunity to learn mathematics fun and efficiently. The application of these methods serves not only to increase mathematical knowledge, but also to develop students' creative thinking, logical analysis and practical skills.

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