



## USE OF INNOVATIVE TECHNOLOGIES IN MATHEMATICS LESSONS OF ELEMENTARY GRADES.

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**Abstract:** This article discusses information about mathematics, mathematics news, Singapore methods, and the use of the Abakus mathematics website.

**Key words:** Innovation, Pedagogical innovation, Singapore method, Abakus mathematics site.

"Nowadays, information on innovative education of foreign countries is used in the teaching of mathematics."<sup>1</sup>

"Innovation is not simply novelty, or a system of elements that provides novelty by introducing some novelty and means of forming radically new qualities and interests."<sup>2</sup>(P.S.Lerner)

The concept of "Innovation" translated from English means "innovation".

The following are the main manifestations of innovation:

- new ideas;
- specific goals aimed at changing the system or direction of activity;
- unconventional approaches;
- unusual initiatives;
- advanced working methods.

Innovation is a process in which technology, forms and methods in a certain field of activity or production, a new approach to solving a problem or a new technological process are known to be more effective than before.

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<sup>1</sup> Pedagogical education cluster: problems and solutions journal. 2020 year. Page 532.

<sup>2</sup> INFOUROK 2024.



Pedagogical innovation is an innovation in the field of pedagogy, a purposeful progressive change that introduces stable elements (innovations) into the educational environment that improve its components and the characteristics of the educational system as a whole.

In mathematics lessons, we will focus on the issue of computer use in order to develop students' thinking ability. During his training, the teacher should not only give the students a certain amount of information, but should achieve the formation of a desire to independently search for other information using various tools, including the computer<sup>3</sup>.

Brief information on the secrets of the success of Singaporean teachers and schoolchildren in the educational process. In Singapore schools, in-depth study of each subject is common. The tasks are structured in such a way that you will always return to previously studied topics for deeper understanding. By the end of the elementary school course, children not only understand mathematics, but also love it and accept it as a logical part of life. For them, mathematics and logic are not thoughts. It is the second mother tongue they speak.

In addition to the specifics of the teaching methodology of mathematics, thoughts were written about how the education system in Singapore differs from ours:

- teachers are the most respected people in the country;
- parents help teachers, teach children to work and never doubt the teacher's authority;
- Singaporean teachers work 12 hours a day;
- In order to obtain a teaching permit, specialists undergo serious training;
- Children study mathematics for an hour every day.

In general, the secret to the success of young Singaporean mathematicians is simple. They develop a love for the subject through play, interaction and communication. The country does not encourage the neglect of this subject and does not separate successful and unsuccessful children.<sup>4</sup> Singapore Methodology Collection via web. site has been created. While studying in elementary school, children can use educational Internet sites with interesting content. This site will help encourage students to read from 1st grade. This collection is a source of useful knowledge and exercises in mathematics, Russian and English languages, the world around us and other subjects. The site called "Abakus mathematics" contains the necessary information for elementary school students. Topics from all subjects were explained through games. "Read and write the alphabet", "Algorithm logic", "Puzzle", "Hand motor skills", "Read and write in English", "Idea for vacation",

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<sup>3</sup>Pedagogical education cluster: problems and solutions journal. 2021 year. Page 533.

<sup>4</sup> Abacus mathematics site. 2023.

<https://abakus-center.ru/blog/singapurskaja-matematika>



"Math maze", " There are General Quests, Winter Quests, Halloween Quests, and Daily Quests sections. Preparation for tasks is carried out through these departments.<sup>5</sup>

A collection of methods:

1. "Reading and writing the alphabet" method. Combine the letters written in A3 B2 A1 to form a word. We can also use this method in proverbs, wise words, and numbers.

3	H	P	C
2	M	O	K
1	C	D	E
	A	B	V

A3 B2 A1 HOC

2. "Mathematical labyrinth" method. By combining the given numbers in sequence, a maze is formed. We can use this method in letters, multiplication and division.

12	13	14	13	14
11	10	11	12	4
8	9	4	3	3
7	6	5	2	2
5	4	3	2	1

<sup>5</sup> Abakus mathematics site. 2023.



## References:

1. "Pedagogical education cluster: problems and solutions" magazine.
2. INFOUROK 2024.
3. Abakus mathematics site. 2023.

## Saytlar:

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