

# USING INTERACTIVE AND PEDAGOGICAL METHODS IN TEACHING MATHEMATICAL LESSONS

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## Abstract

This article provides information about modern methods that are most often used in primary mathematics classes. Methods of application of these methods and their effectiveness are discussed.

**Keywords:** mathematics, pedagogical technologies, picture rebus, question and answer, modeling

## Introduction

It is known that every qualified teacher has innovative methods that he uses in the course of the lesson. Among these methods, the most important and central issue of the pedagogue's activity is the efficient and high-quality organization of the educational process. This is especially important in primary grades. Primary education is the main class of general education schools. At this time, it is necessary to pay great attention to the perfect development of the mental state of young children. The reason is that it is necessary for them to accustom the students who have just stepped on the threshold of the school to school life, to open the way for them to receive modern education.

Innovative methods are a technology that greatly helps in the formation of learning motivation. We will now get acquainted with innovative methods used in primary classes.

1. "Picture rebus" method. This method is appropriate if it is mainly used in the "Consolidation" part of the lesson. Using this method, students will have to identify the works of the poet by looking at the pictures. For example, if the rebus shows pictures of a fish, a pond, and a gold coin, then the poet's poem "Golden Fish" is depicted here. This can help children develop their mental abilities.

2. "Quick question and answer" method. We found it necessary to use this method in the "Repeat the topic and ask for homework" part of the lesson. Students will be asked questions related to the previous topic.

Students will have to answer the questions quickly. In this case, it is appropriate that the students give their answers in writing, because it takes into account their mastery of the answers of their partners.

3. "Interesting crossword" method. Through this method, students can help to strengthen the knowledge they have acquired in the "New Topic Statement" part of the lesson. That is, it will be more effective if the students in the class work in groups.

4. "Project" method. It would be good if this method was used in the "Final part" of the lesson. Because the information provided for the previous reading in the textbook is relatively small



and the class time is limited, it may be difficult for students to get extensive and complete information. In such situations, this usual can work well. The "Project" method is a method that can motivate students to study and search independently. At the end of the lesson, the teacher presents a topic of interest to the students and appoints a captain. Until the next lesson, they will be tasked with finding information on the assignments, and then preparing a presentation project.

Organizational methods of classes organized on the basis of pedagogical technologies should meet the needs of the student according to the methods of conducting them. Because such lessons are closer to the child's psyche. Achieving the goal based on arousing the desire, desire and desire of students to master educational materials is motivation, and this is the internal rapprochement of the teacher and students. Education in primary grades improvement of students' motivation to study in the process is important. In addition, methods such as "Sinquain", "Muzyorar", "Case study", "Insert", "Venn diagram", "BBB", "Advertising method" are used in the organization of the educational process in primary classes. The importance of the methods is , it covers several stages and helps to improve students' independent research abilities. We believe that the above teaching methods, infused with an innovative pedagogical spirit, will not only increase students' speaking competence, but will also help in instilling in them the qualities of independent research and ambition perfect.

Such teaching methods on the basis of modern education in schools no doubt help read students in educating a new period, bringing a new time in all-sided abilities. The uniqueness of innovative technologies in the course of the textbook is that they are carried out through the joint activities of teachers and students. The teacher's activities are to describe the textbook, lead students 'interests and impression, inspecting and evaluating students' knowledge, skills and skills. consists of. A teacher who sincerely, devoted to his work, will be a sincere passionate. Pedagogical news - enriching the theory and practice of education in pedagogical activity and developing changes in the educational process, and it increases the educational process, increasing the educational process, students of students independent thinking Forms the process, students increase the enthusiasm and interest, and form the knowledge and skills of knowledge through the practice. Computers today is an important tool for obtaining information and processing, which is its speed is amazing to imagine. Therefore, the introduction of these tools in the educational process can be considered natural today.

Let's try to systematize computer processes used in a didactic textbook. Due to multimedia technologies, students are of interest and interest. It activates thinking activities and allows you to effectively master the passed material. Provide in practice allows you to model and display the difficult processes. In addition to the speed of mastery of material, it allows to conduct teaching individually. We focus on using a computer in order to develop students thinking in mathematics. The teacher should not only give students a certain amount of classes, but also to search for other information independently using various means, including computer. Referential Analysis and Methodology: The less important teaching of students' ability to independent knowledge is the most effective and quality of the lesson. Computer increases students' ability to work independently, and the teacher can manage the process of mastering the material pasted in various ways. "Innovative approaches in teaching mathematics" reveal the content and essence of modern approaches and innovations in teaching mathematics on the



basis of the curriculum of mathematics. Let's look at the examples of some mobile apps you need to learn subjects. The app "Mathematical Zuckol" for the development of basic calculation skills. The app reflects existing algorithms for instant calculations. Each student can study them and then strengthen the theoretical knowledge in practical training, so that it can enrich the practical experience of oral arithmetic. The textulatory complex of the textbook in the teaching of mathematics is related to the natural ideas, norms, rules, rules, natural ideas, norms, rules of regulations. adjectives teach them to create upbringing, which allows the formation of skills. called innovative education. The technologies used in the process of innovative education are called innovative educational technologies or educational innovation. Education innovation is a form, method and technology that can guarantee a more efficient result in the field of education or in the educational process. Today, the education innovation in the level of world educational, the introduction of educational institutional, professional, professional, national and universal values through the level of educational standards Education of limification, pedagogical staff of educational institutions, especially each science, should radically change their pedagogical activity in solving tasks such as developing a harmonious person in the spirit of independence.

A lot of attention is paid to general education schools throughout our country, and work is being done to equip our schools at the level of world standards. Today, teachers of educational institutions in the continuous education system, including general secondary schools, face new tasks, that is, the tasks of improving the quality of mastering science. In this regard, various methods are used in teaching mathematics, the main purpose of which is to introduce and master mathematics teaching. Discussion: multimedia tools of information technologies are of particular importance in the educational process with the following most important aspects: organization of differential and individual teaching process; evaluation of the study process, feedback; self-control and self-correction; Show the subject being studied and the dynamic process of learning; use of computer and information technologies such as animation, graphics, animation, sound in science lectures; formation of strategic skills for students to learn science, etc. Also, the practical aspect of multimedia tools creates a basis for the implementation of the important task of using them in the educational process and creating a database of specific names and virtual stands for the future educational process in the educational system. The issue of creating electronic versions of subjects, introducing information technologies into the educational process and creating modern software is one of the most urgent problems of today. The methodology of creating electronic developments for primary grade mathematics lessons in general secondary schools, the methodology of using information technologies in lessons and conducting lessons on this basis was developed. The created electronic development does not contain the title, content, learning materials, and pages describing tests and assignments for knowledge control. The main part of electronic development included text, graphics, animation and test programs. The use of computer and multimedia tools in the teaching of elementary mathematics in general secondary schools based on new pedagogical technologies and modern information technologies is one of the non-traditional types of lessons.

In conclusion, it should be said that if the educational activity of students during the lesson is carried out using innovative methods, their reception of information will be effective and easy, and it will help to increase the effectiveness of education. In primary classes, where the child's



mind is being formed, the skill of the pedagogue, his skillful interpretation of teaching technologies in the educational process, the search for new methods of education, and the creative use of pedagogical experiences are very important. One of the tools of information technologies is the organization of teaching mathematics in a multimedia environment through various animations and programs. Organizing the teaching process based on multimedia tools of information technologies on the basis of requirements makes it possible to lighten the teacher's work, manage the educational process, and increase its efficiency. In addition, to the management of the educational institution, review the test results of students, groups, specialties and evaluate the results of their mastering, evaluate the quality of the preparation of the teacher's lecture texts and other materials intended for independent work. giving, introducing computer-modeled virtual stands for performing laboratory work based on multimedia tools, developing suggestions for preparing methodological materials for mastering the course, etc. That's why introducing pedagogical innovations into the educational process, using pedagogical technologies in education, using various innovative methods, and relentless research to increase the effectiveness of education has become the need of today.

It is known that every qualified teacher has innovative methods that he uses in the course of the lesson. Among these methods, the most important and central issue of the pedagogue's activity is the efficient and high-quality organization of the educational process. This is especially important in primary grades. Primary education is the main class of general education schools. At this time, it is necessary to pay great attention to the perfect development of the mental state of young children. The reason is that it is necessary for them to accustom the students who have just stepped on the threshold of the school-to-school life, to open the way for them to receive modern education.

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