

## METHOD OF TEACHING THE SUBJECT OF ADDING NUMBERS WITH DIFFERENT SIGNS

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### Abstract:

This article talks about the pedagogical skills and innovative approaches required of teachers to achieve high results in a short period of time in modern education. The importance of the use of pedagogical technologies and interactive methods for the effective conduct of mathematics lessons is analyzed. In particular, the methods used in teaching the subject of «adding numbers with different signs», including step-by-step and small group methods, are described in detail. The article explains the rules and examples of adding numbers with the same sign and different signs. Various games and practical exercises are offered to strengthen the subject. Also, a description of the «Three right and one wrong» method, which is used to determine and strengthen students' understanding of the topic, is given. The article presents examples and problems based on the 6th grade mathematics textbook and highlights the effectiveness of modern pedagogical technologies. Recommendations are given to improve the effectiveness of the educational process using interactive methods.

**Keywords:** Positive number, negative number, «Zinama-zina», «Charkhpalak», «Find the hidden object», modern pedagogy, modern teaching methods.

### Introduction

Today's task of education is to teach students to be able to work independently in the conditions of the information-educational environment that is increasing day by day, to effectively use modern information technologies in various fields, and to use the flow of information wisely. Help to organize modern education One of the important requirements is to achieve high results in a short time without spending too much mental and physical effort. It is the responsibility of the teacher to deliver certain theoretical knowledge to students in a short period of time, to form skills and competencies in them for certain activities, as well as to control the activities of students and evaluate the level of knowledge, skills and competencies acquired by them. it requires pedagogical skills and a new approach to the educational process. In addition, making students interested in learning also requires high skills from the teacher. The main goal of pedagogical technologies in education is to bring the student to the center of the lesson process in the teaching system, to move students away from simply memorizing and automatically repeating educational materials, to develop their independent and creative activities, and to turn them into active participants of the lesson. Only then, students will have their own opinion on important life achievements and problems, practical application of the topics covered, and will be able to justify their point of view. Literature analysis.

The article provides information on the use of person-oriented educational technologies in mathematics classes.

in the article, the historical approach to the study of academic subjects brings the educational



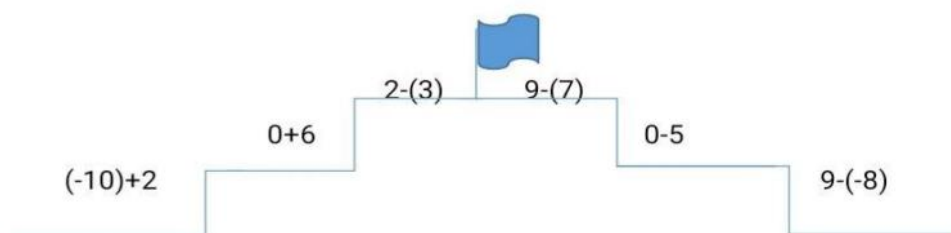
process closer to scientific knowledge to a certain extent, and the teacher, while getting acquainted with the concepts of mathematics, talks about their history and development (mainly the services of our great ancestors) during the lesson. It is thought that the students' interest in science will increase and they will develop their love for the Motherland.

The article analyzes the issue of using didactic games in the process of teaching mathematics. It was noted that the level of organization of lessons depends on the teacher's creativity. It is said that the students will consolidate the knowledge they have received from the lesson and prepare to apply it in life.

The article is devoted to the analysis of the effectiveness of interactive technologies as a means of improving the quality of the educational process. Today, it is noted that the use of interactive methods is widely introduced in the educational process, which requires the humanization, democratization and liberalization of the educational process. The use of information technologies in lessons helps students develop a skill-based approach, develop their abilities, which allows them to become competent, professional individuals in educational institutions. Interactive methods are aimed at achieving high results in a short period of time without spending a lot of time and physical effort, teaching the student theoretical knowledge, acquiring skills and competencies in certain types of activities, forming moral qualities, controlling the student's knowledge and it is said that assessment requires great skill and dexterity.

The main part.

As we know well from the school mathematics course, the topic of "adding integers" is the topic that comes after the topic of "comparing integers", and the student must have a good understanding of the topic of comparing integers. That is, only if the student has detailed information about the comparison of integers and the representation of numbers with different signs on the number line, as well as the modulus of the number, in adding numbers with different signs, mastering and learning this subject will be difficult. does not occur. In this case, it is better to repeat the lesson with the students before moving on to the new topic. We use the step-by-step method to repeat the previous topic. For this method and for interesting methods during the lesson, we divide the students into two groups using the method of working in small groups (the group is divided into small groups). Group 1 "POSITIVE NUMBER", group 2 "NEGATIVE NUMBER". For the "STAIR-STAIR" method, homework is given and some examples from the book are used. Each group is given 4 examples, depending on the location of the stairs, the level of examples increases. (Figure 1)





Today, in a number of developed countries, the methods that form the basis of great experience in the use of modern pedagogical technologies guaranteeing the effectiveness of the educational process are called interactive methods. Interactive educational methods are currently the most common and widely used methods in all types of educational institutions.



Integers with different signs can also be added in the following order:

- minus the module larger than the smaller;
- the difference is preceded by the sign of the whole number whose modulus is large.

$$146 + (-80) = |146| - |-80| = 66$$



$$-38 + (+28) = |-38| - |+28| = -10$$

$$-123 + (+24) = |-123| - |+24| = -99 .$$

We can determine whether the topic is understandable to the students through the Three Right and One Wrong method: group members give their sheets to the opposite group and they have to find the wrong idea.) This brings the students' attention back to the lesson and it ensures attentiveness in the lesson, therefore, at the same time, it helps the students to better understand the topic and better place it in their memories." After that, we can move on to the practical part of the lesson, where students will do the examples and problems given in the book:

Find the value of the expression.

a)  $|x| + |-25|$ , bu yerda  $x = -25$

b)  $|a| + |-15|$ , bu yerda  $a = -33$

c)  $|a| - |b|$ , bu yerda  $a = -150$ ,  $b = -138$

Calculate in convenient ways.

a)  $-14 + (-9) + (-11)$  b)  $-21 + (-19) + 13$

b)  $-11 + (-18) + (-19)$  d)  $-18 + 15 + 12$

Yig'indilar nimaga teng?

a)  $0 + (-44)$  b)  $-55 + (-55)$

after that, we use the "Charkhpalak" method to strengthen the students' knowledge (in which each group member is given examples on colored paper, and the group must work on it one by one)a)

$112 + 144$

b)  $125 + 100$

c)  $-16 + 0$

d)  $-99 + (-100)$

e)  $-33 + (-37)$

f)  $-754 + (-99)$

This is followed by examples for students to do at home:

The value of expressions  $x = 5$ ,  $y = -3$  va  $z = 7$  find when.

a)  $(-y) + 20$  b)  $(-z) + x + (-16)$

Calculate in a convenient way.

a)  $1 + (-2) + 3 + (-4) + 5 + (-6) + 7 + (-8)$

b)  $-37 + (-22) + (-13)$

The 6th grade textbook was used to form the information presented in the article. Today, in many developed countries, the methods that form the basis of great experience in supporting modern pedagogical technologies that guarantee the effectiveness of the educational process are called interactive methods. Interactive educational methods are currently the most common and widely used methods in all types of educational institutions. At the same time, there are many types of interactive educational methods, suitable for the purposes of implementing almost all tasks of the educational process. In practice, it is possible to select the ones suitable for specific purposes and use them accordingly. This situation has caused the problem of choosing the right interactive learning methods for the implementation of certain goals.



## CONCLUSION

In the above article, we considered how to increase students' interest in reading by using new modern pedagogical technologies in the teaching of the topic "Adding numbers with different signs". It can certainly arouse a strong interest in students, and children will fully learn the subject through interactive methods and interactive games without getting bored.

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