



**ELEMENTARY BASIC MATHEMATICAL
CONCEPTS IN CLASSROOMS INTERACTIVE
METHODS OF FORMATION**

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***Abstract .** This in the article start class in students main mathematician concepts effective in formation interactive of methods caught place illuminated . Interactive education technologies in children independent thinking , creative research and logical thinking in development advantages analysis Also , mathematics knowledge in mastering application possible " Mental " attack ", "B/B/B", " Syncwine", " Cluster ", "Insert", " In pairs work ", " In a group like " design " of methods importance practical examples through open is given .*

***Key words :** Interactive methods , mathematics concepts , elementary education , logic thinking , innovative technologies , active teaching methods , in groups performance , competence .*

Introduction . Modern education in the process in students solid knowledge , active thinking , problem solution skills formation main from tasks is considered . Especially in the beginning in the classrooms mathematics science teaching process students logical thinking , abstract thinking and practical skills in development important Education to the process interactive methods implementation to grow through mathematician concepts further deeper and stronger formation possible. First of all , concept what said to the question answer A concept is an idea about the essential characteristics of sets of objects. The teacher's main activities in this regard are: 1. Determining students'

knowledge based on asking questions, conversations, calculations, and practical tasks for solving problems.

2. Organizing the demonstration and monitoring of demonstration weapons and equipment.

3. Conversation , explanations tied without knowledge statement to do , book with to work to organize .

4. Exercises organize : students educational-practical and vital practical their work organization to be .

5. Ask and practical work to perform according to assignment to give way with students knowledge verification .

In this process, the students' activities are reflected in the following:

1. Teacher to questions answer give , measure , calculate , issues solution using assignments

2.Recommendation made objects on observation , analysis , generalization , inference .

3. Teacher's statement listen , book reading , facts generalization and remember .

4. Owned knowledge practical work to perform apply , before occupied knowledge changed under the circumstances application

5. Teacher's to questions answer to give , practical work

6. Recommendation made objects on observation , analysis , generalization , deduction .

Main Part . Interactive of methods study in the process role . Interactive methods are the students to activity inviting , they participation providing , training during independent search and to think encouraging education are methods . Such methods through students mathematician concepts not only remembering to stay , maybe

understanding , in practice application , analysis to do as much as possible has The advantages of interactive methods : they put the student at the center of the learning process, connect the concepts being studied with real life, develop speech, logic, and communication skills, enhance cooperation between students, and make the lesson lively, interesting, and effective. In the primary grades, it is necessary to lay such a solid foundation of mathematical knowledge that it is possible to continue further mathematical education on this foundation. This for grades 1-4 mathematics training materials with V-VI grade training materials between interruption not to be need . Primary class training of the material directly successor is , V-VI grade mathematics continue to be able needed. Home mathematician concepts in formation applicable interactive methods First, let's answer the question of what interactive methods are. Interactive methods are of the students knowledge to take in the process active participation providing , mutual communication , collaboration , critical thinking and creative to the approach based teaching methods . Through such methods, knowledge is acquired not only from the teacher, but also through group discussion, experience, debate, debate and collective development. The advantage of interactive methods is that they form the student's skills such as independent thinking, decision-making, finding solutions to problem situations, developing speech and justifying his opinion. In today's era of rapid renewal of knowledge in the conditions of globalization and digital transformation, it is not enough to simply provide ready-made knowledge. On the contrary, it is necessary to teach the student to learn, to be open to innovation, to be flexible, to analyze information, to think critically, and to develop communication skills. Interactive methods

exactly the same this competencies in formation effective tool to be service It also makes interactive of methods application teacher and student between healthy pedagogy the environment shapes , lessons animates , education process unilateral it's not , maybe many one-sided , mutual to cooperation based to the process This not only increases the quality of education, but also increases students' interest and enthusiasm for the lesson. One such method is It is a "brainstorming" method. This method through students new the concept when opening active participation For example , the concepts of " number", " intersection ", " figure " in learning from children this to the concept related thoughts Students are collected . own knowledge based on to definitions they approach .

There is also a “ cluster ” method , which uses mathematical concept content wider when opening very convenient . For example , in the “ multiplication ” cluster students of reproduction content , application , life examples branched This method the topic deep to understand help gives . **“B/B/B” (I know — To know) I want — Knowing I got it .** to the topic entrance and in the end analysis for For example , " Geometric on the topic " shapes " children what what he knows , what to know wants writes , lesson after and mastered knowledge summarizes . **“Pair work” or “Think-Pair-Share”** Students first think about a problem, then discuss it in pairs and present the final answer to the class. This method develops logical thinking and cooperation skills. **“Insert” method** develops students' skills in analyzing read or observed information. It is used in mathematics lessons to learn rules and definitions. **Practical games and interactive exercises** Games such as “Find the top number”, “Additional chain”,

“Geometric hunt” help students consolidate mathematical concepts.

These games make the lesson interesting and effective. **The effectiveness of interactive methods in forming mathematical concepts** . Students deeply master mathematical concepts through practical activities. The lesson process becomes lively, children's interest increases. Students develop independent thinking, questioning, and problem-solving skills. Mathematical concepts vital examples through easy understood . The stability of knowledge on the topics increases. Interactive methods are pedagogical approaches that ensure the active participation of students in the educational process. Through these methods, students have the opportunity to freely express their thoughts, participate in group discussions, work with groups, exchange ideas and share their experiences. Interactive methods develop students' skills such as independent thinking, decision-making and creative approach. They not only consolidate students' knowledge, but also form their personal and social competencies. Interactive methods can be implemented in various forms. Working in groups helps students develop teamwork skills. In this method, students solve a problem together or carry out creative work on a topic. Debate allows students to listen to different opinions, argue and argue. Another method is role-playing, which teaches students to simulate social situations by assigning different roles. Through these methods, students develop empathy, learn to feel in the shoes of others. Using the brainstorming method, students quickly collect ideas and learn to choose the best and most effective solution from them. The use of interactive methods in modern education turns students from passive learners into active participants. The process of students' learning becomes interactive, that is, they are not

limited to receiving information from the teacher, but also consolidate their knowledge by exchanging ideas, working in groups and discussing with each other during the lesson. Interactive methods also serve to improve students' speech culture, as they learn to express their thoughts clearly, consistently and reasonably. Interactive methods help develop not only students' cognitive skills, but also social, spiritual and moral skills. By working together, students learn to coordinate their thoughts with others, treat them with respect, and take into account collective opinions in decision-making. At the same time, these methods develop students' skills in independent thinking, creative approach, and development of new ideas.

In conclusion, it is worth saying that the use of interactive methods in the formation of mathematical concepts in primary school students increases the effectiveness of the learning process, makes lessons meaningful, interesting, and student-centered. Through interactive methods, the child masters the theoretical concepts of mathematics through practical activities, games, and group work. This develops his logical thinking, independent decision-making, and creative approach. Interactive methods have become an integral part of the modern educational process. They ensure the activity of students in the process of acquiring knowledge, helping them to turn from passive learners into active participants. Through these methods, students not only acquire knowledge, but also develop their social and personal competencies.

The main goal of interactive methods is to form critical thinking, creative approach, teamwork and cooperation skills in students. Interactive methods also provide students with the opportunity to

express their opinions clearly and well-foundedly, listen to and discuss different points of view. These methods develop students' speech culture, communication skills, and they learn to work with mutual respect and cooperation. The use of interactive methods in the educational process turns students from teachers into active participants in the learning process, not just recipients of information. This outside , interactive methods of lessons efficiency increases and of the students to class was interest They lessons monotonous and passive from winter According to them , they will practice mutual communication and exchange of experiences, which will improve the quality of education. With this together , interactive methods lesson to the process current in doing from the teacher high pedagogical skills , creativity, and good planning required. Teacher these methods right organization to reach in management his/her pedagogical skills permanent accordingly increasing I need to go . In general , interactive methods modern of the educational system effective one of the tools they are students activates them , knowledge to take to the process was interest increases and general education quality to improve They help . in students not only knowledge mastery , maybe real in life problems solution to do and different in situations decision acceptance to do such as skills to develop opportunity It also gives methods the students social responsible , own his/her opinion free declarative and collective to work capable individuals as shapes .

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