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Preparing Students for Mathematics Lessons and Checking Their Knowledge of Mathematics

Sunnatullo DO'STOV
Teacher of the Department "Methodology of Primary Education" at the Denov Entrepreneurship and Pedagogical Institute of the Republic of Uzbekistan,
Xushboqova Saodat Qo'chqor qizi
3rd level student of Denov Institute of Entrepreneurship and Pedagogy of the Republic of Uzbekistan, Mathematics and Informatics,
Jumayeva Mashxura Yoqubjon qizi
3rd level student of Denov Institute of Entrepreneurship and Pedagogy of the Republic of Uzbekistan, Mathematics and Informatics,
Abdijalilova Mohiniso Axmad qizi
3rd level student of Denov Institute of Entrepreneurship and Pedagogy of the Republic of Uzbekistan, Mathematics and Informatics

Annotation: This article describes in detail the preparation of students for mathematics lessons and the examination of their knowledge of mathematics, the analytical and logical thinking ability of a student who has mastered mathematics well, and the examination of students' level of mastery in various ways.
Keywords: mathematics lesson, lesson structure, lesson preparation, work plan, mathematics program, lesson requirements, lesson analysis, knowledge test.

Introduction:

A mathematics teacher starts preparing for the lesson at the beginning of the school year by drawing up an annual or sometimes half-yearly work plan according to the class program assigned to him. In addition, he creates a separate work plan for each math lesson. In the work plan for mathematics, the main questions of each topic, the hours allocated for passing these questions and the period of passing should be indicated.

It is desirable that the work plan of mathematics should show what kind of visual aids to use and what kind of practical examples and solving problems to pass each topic. According to experts, a student who has mastered mathematics well has a high analytical and logical thinking ability. It develops the ability to make quick decisions, discuss and negotiate, and do things step by step, not only in solving examples and problems, but also in various situations in life. Mathematical thinking also takes it to the level of predicting what will happen in the future, what will happen in the environment.

Literature analysis and methodology:

The language of nature can be translated into the language of mathematics, the language of numbers, which helps us understand the structure and relationships of any phenomena, create models and predict their future states. It is enough to recall Einstein's contribution to science through the formulas of the theory of relativity,

thanks to which we begin to learn about our Universe, and its laws are confirmed experimentally by space exploration.
Mathematics can be divided into two complementary parts. Theoretical science deals with in-depth analysis of structures within mathematics. Applied science presents its models to other sciences. Physics, chemistry and astronomy, engineering systems, prediction and logic make constant use of mathematical apparatus. With its help, discoveries are made, patterns are found, events are predicted. In this sense, the importance of mathematics in human life cannot be overestimated.
These and many other professions simply do not exist without mathematics. Mathematics has a special place in the system of sciences. After all, he studies nature, and this gives him every reason to associate it with the natural sciences, but, unlike other natural sciences, he does not use the methods of observation and experiment, but the deductive method, which is purely speculative in nature, and this Humanities bring him closer to him.
It is not necessary for a detailed student to complete the solution of each problem or example. It is possible to prepare the most important questions related to the given task in advance and conduct the examination according to this plan. When examining the solution of problems and examples, it is necessary to identify several different solution options for the same problem, and in the calculation examples, to show the different solution methods used and to determine the most suitable solution methods from among them.
Solving the problems or examples in the school mathematics course shows that students can not only develop mathematical skills and abilities, but also apply the acquired theoretical knowledge in practice. If the teacher goes through the topic of quadratic equation and solves the problems related to the quadratic equation in the process of strengthening it, the students' knowledge of the material of this topic will be strengthened and the idea of the application of the concept of the quadratic equation will be formed in the minds of the students.
The integration of our country into the world community, scientific and technical development requires the modern generation to be competitive in the changing world labor market, to master the sciences thoroughly. This is ensured by introducing standards based on advanced national and international experience into the education system, including teaching mathematics.
Taking into account the incomparable role of mathematics in our lives, this subject is included in school textbooks from the first grade, and in our country, along with all specific subjects, mathematics education is being improved based on the requirements of the times, the latest pedagogical and innovative methods, multimedia are used in its teaching. great attention is being paid to the introduction of tools and information and communication technologies.

Results:
The mathematics work plan is discussed by the educational methodology board at the school and approved by the school director, it becomes an official document, and based on this approved plan, the teacher passes each subject of the mathematics lesson, and the school management also follows this approved work plan examines the teacher's educational activities. The teacher should pay attention to the following when creating a work plan for each lesson.
1. The topic and its part studied in this lesson are shown.

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2. How is homework checked?
3. Which students will be asked?
4. What independent works are given for students in the class and when are they given?
5. The description of the new topic will be shown, how will it be explained to the students and what parts will be written?
6. Questions or examples and issues are written down to strengthen the new topic learned.
7. Homework, topic paragraph, example and problem numbers and instructions to students are written down. At the end of each lesson, the teacher must complete today's lesson together with the students and check the students' knowledge. Students will gain deep mathematical knowledge only if the teacher carefully plans and thinks about the content of each lesson.

Mathematics is a fundamental science, its methods are actively used in many natural sciences such as physics, chemistry and even biology. By itself, this field of knowledge works with abstract connections and interactions, that is, with things that are not material for themselves.

Students' level of mastery can be checked in different ways, i.e., the student performs the main considerations in deriving a formula or proving a theorem, asking students questions about the content of the topic that has been prepared in advance, drawing theoretical conclusions. is to identify skills that can be applied to solving problems or examples.

Discussion:

It is appropriate to analyze each math lesson by finding answers to the above questions. Only then the analysis of the lesson will be effective.

Getting the performance review right is just as important in any field of work as it is in teaching. It allows the teacher to develop a sense of responsibility in the students, to identify the shortcomings of the students' knowledge in time, to evaluate their work correctly. The work of checking students' knowledge should be carried out regularly, that is, every day.

First, after explaining the new material, it is necessary to check to what extent it is understood. Remembering that the main goal of the lesson is to explain the content of the subject to the students, and that the students should acquire knowledge mainly in the lesson, the teacher should ask the students whether he has achieved this goal or not. It is necessary to check through rash.

Checking the completion of written homework is often done by "going around" the class and looking at students' notebooks. This way allows you to determine the completion of the task, but the quality of the work is difficult to determine in this way. Keeping a notebook for checking homework is beneficial, because when the notebook with the homework is given to the student, they can see the grades and comments made by the teacher in the notebook and know what knowledge they have about the assignments. The teacher is obliged to evaluate the results of homework based on the rating criteria. In addition, it is determined by taking some students to the blackboard and asking them to solve a problem or an example given by the teacher on the subject.

Conclusion:

In conclusion, it can be said that the logical rigor and rigor inherent in mathematics calls for the cultivation of a general culture of thinking. Some students are allowed to

Volume 8, October 2022 ISSN (E): 2795-4951

ask the answering student additional questions about the topic. This forces students to memorize all the material on the subject. But it is necessary to teach students to ask important questions, and for this, the teacher should be able to distinguish the most necessary and important aspects of the studied material during the study of the topic. In any case, regardless of the method of questioning, the teacher should first define the material to be asked in advance, think carefully about how the questions will be asked, and think in advance how the problem should be solved or the proof should go. should be done. Only then the students' knowledge of the subject will be of high quality.

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