ORGANIZATION OF THE LESSON "METHODS OF SOLVING RATIONAL EQUATIONS" (IN THE CASE OF VOCATIONAL SCHOOLS)

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Annotatsiya: Mazkur ишда касб-ҳунар мактаблари ўқувчиларига "Ratsional tenglamalarni yechish usullari" дарс машғулотини ташкил этиш ва унинг ўзига хос жиҳатларига тўхталиб ўтилган.

Калит сўзлар: касб-ҳунар мактаби, aniq fanlar, ратсионал тенгламалар, sonlar nazariyasi, метод.

INTRODUCTION

In today's era of globalization and telecommunications, attracting students to the lesson and increasing their interest in science remains one of the most urgent issues. Including mathematics, which is the "father" of exact sciences.

Changing socio-economic conditions requires a qualitatively new level of personnel training. This can be achieved by moving to the path of innovative development that allows secondary vocational education institutions to increase educational efficiency. It should be noted that the development process of secondary vocational education is slowing down due to certain problems: the breakdown of traditional ties between educational institutions and enterprises, the outdated material and technical base of educational institutions, the lack of students the difficulty of choosing a basis for conducting practical training, the inability to provide full training of personnel with the necessary qualifications, the fact that educational institutions are not filled with managers and teachers who have professional experience in modern enterprises.

Education, including professional education, is one of the most urgent issues, especially in the period when the government of Uzbekistan is carrying out rapid reforms in the field of poverty reduction.[3]

In world experience, the following 3 tools are used, such as creating a permanent source of income for poor families, improving the quality of human capital, and direct support. will be done. [2] This is a direct result of education.

On September 6, 2019, the President's Decree "On additional measures to further improve the professional education system" was adopted.

If this Decree was the basis for the establishment of a new professional education system in the history of Uzbekistan, on January 24, 2020, the head of our state said in his Address "Starting from the current academic year, a completely new professional education system will be launched vocational schools, colleges and technical schools will be established," he once again emphasized the importance of this system.

Because the main tax payers are middle and lower level professional workers.

MAIN PART

Increasing the interest of students studying in vocational schools in lessons is a somewhat complicated process. It is more difficult to develop their interest in specific subjects. This depends on the professional experience of the pedagogue-teacher.

A professional pedagogue organizes theoretical knowledge in science through interesting methods and tools. He assesses the situation and directs the lesson based on the wishes of the students. Organizes the topic by connecting it with real life.

Maskur's article focuses on the issue of organizing the "Methods of Solving Rational Equations" lesson for students of vocational schools.

First, necessary small lectures are prepared for the topic. In the lectures, the views of various theories, scholars and schools on the subject will be discussed. During the lecture, special attention is paid to the relevance of the topic, its object and scope.

After that, the main value of the topic will be discussed. In this, Mazu is connected with life and explained with practical examples.

Various problems, tests and quick questions or reflective questions are given within the topic. It is also possible to organize various discussions based on the topic.
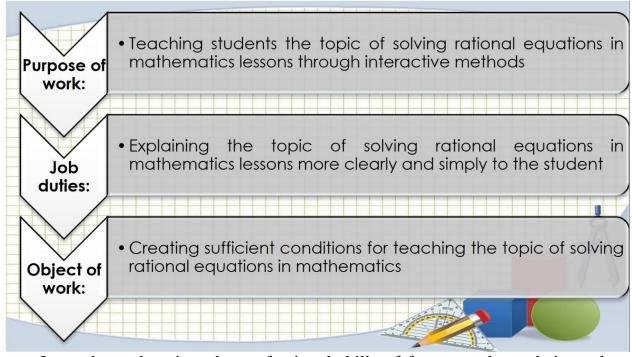
During the lesson, it is necessary to use interactive methods effectively.

The use of interactive methods helps to increase the effectiveness of the lesson. The main criteria of interactive education: conducting informal debates, the opportunity to freely describe and express the educational material, the number of lectures is small, but the number of seminars is large, the creation of opportunities for students to take initiative, small group, large group, class team assignment, writing assignments and other methods, which are of special importance in increasing the effectiveness of educational work.

The advantage of new pedagogical technology has passed the test of time and is proving to be an important factor in improving the quality and efficiency of interactive lessons.

The researchers who have accumulated a lot of experience in this regard emphasize that pedagogical technology is a factor that guarantees the success of the lesson, and express their opinion about the scientific planning of pedagogical processes, its implementation, and the precise and consistent implementation of the planned educational process into practice. brings his comments to the attention of the public.

Purpose of work:
- Teaching students the topic of solving rational equations in mathematics lessons through interactive methods

Job duties:
- Explaining the topic of solving rational equations in mathematics lessons more clearly and simply to the student

Object of work:
- Creating sufficient conditions for teaching the topic of solving rational equations in mathematics

In modern education, the professional skills of future teachers, their modern knowledge of modern education and innovative technologies, modern knowledge of mastering advanced foreign experiences, are at the heart of systematic reforms aimed at ensuring the quality of teaching in educational institutions. Development of knowledge and skills is one of the urgent tasks. Due to the importance of modernizing the process of training pedagogues in our country, improving the content and quality of education based on modern development trends in the field, advanced foreign experiences and innovative approaches, it has been raised to the level of state policy.

SUBJECT OF WORK:

*Gives students knowledge, skills and abilities in mathematics; age characteristics of students are taken into account when imparting mathematical

knowledge; the approach to the introduction of a new mathematical concept or law is important, and the method of its expression is chosen on this basis; abstract concepts are given with explanations and examples; repetition is also carried out in teaching; the educational subject cannot reduce and destroy the science system.

RATIONAL EXPRESSION

Let two polynomials be give $P(x)$ and $Q(x)$ x n in variable x.

An expression in the form $\dfrac{P(x)}{Q(x)}$ is called a rotational expression.

For example, $P(x) = x^2 + 1$ and $Q(x) = 2x + 5$ then $\dfrac{x^2+1}{2x+5}$ rational expression.

Using the method of symmetric notation in solving rational equations

$$\frac{4x}{4x^2 - 8x + 7} + \frac{3x}{4x^2 - 10x + 7} = 1$$

$$\frac{4}{4x - \frac{7}{x} - 8} + \frac{3}{4x - \frac{7}{x} - 10} = 1$$

$$\frac{4}{y+1} + \frac{3}{y-1} = 1$$

$$y(y-7) = 0 \implies y_1 = 0 \qquad y_2 = 7$$

"BLACK BOX" METHOD

We will divide students into 6 groups. We will give each group one assignment on rational equations. One person from the group will act as a teacher if the group completes the task clearly and correctly. "Teacher" orders each group to solve the given 10 equations. This process is carefully monitored by the teacher.

Summary

Mathematics, like other sciences (physics, chemistry, history, etc.), studies real existence. Researches the structure of real existence and its laws. It makes different models about the real existence. If the natural sciences are based on experiments in

their research, mathematics is not based on experiments. It is possible to refer to experience in understanding and imagining problems related to connecting theory in mathematics with practice.

In modern education, an opportunity is created for the learner to work on himself, expand and deepen his knowledge outside of the classroom.

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