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CONDUCTING A LESSON ON THE SUBJECT OF "RATIONAL EQUATIONS" IN AN INTERACTIVE WAY (EXAMPLE OF VOCATIONAL SCHOOL STUDENTS)

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Abstract: In this scientific work, the topical issues of interactive organization of the lesson on "Rational Equations" within the framework of mathematics in professional educational institutions are discussed. Practical training on the subject and organization of independent work are covered in the work. Some reforms in the professional education system were also discussed.

Key words: Rational equations, interactive, professional education, method, formulas, training.

INTRODUCTORY PART

In accordance with the priority tasks for the socio-economic development of the country, raising the growing young generation to be modern educated and highly spiritual, fundamentally improving the content of personnel training, creating the necessary conditions for training specialists at the level of international standards, and regulatory legal documents regulating the activities of educational institutions at all levels in order to coordinate the preparation processes, several legal documents were developed and amendments and additions were made to some of the current documents.

To increase the quality of education at all levels of education, to introduce international experience and requirements in the field, to include children up to school age in pre-school educational institutions, to increase the coverage of graduates of general education schools, academic lyceums and vocational colleges to higher education, to expand facilities and opportunities for applying for higher education and access to ensure the fair and transparent organization of examinations, to reconstruct the buildings of educational institutions based on the requirements of the times and to build modern ones and to update their material and technical base, to attract the private sector to the field, to improve the system of material incentives for teaching staff and to increase their salaries step by step measures are being taken.

In particular, according to the decree of the head of the state "On approval of the concept of development of the public education system of the Republic of Uzbekistan until 2030", the Republic of Uzbekistan will be among the first 30 advanced countries of the world by 2030 according to the PISA (The Program for International Student Assessment) rating. task was set. In addition, in order to organize international studies in the field of education quality assessment in the public education system, it was

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decided to create a national system for assessing the quality of education in general education schools, PISA, which is aimed at assessing the level of literacy of students in reading, mathematics and natural sciences.

The objectives of the "Uzbekistan-2030" strategy are to ensure the balance of the labor market and the development of its infrastructure, to create conditions for the full realization of work and entrepreneurial activity of the working population, to improve the quality of the workforce, and to expand the system of training people in need of work.

MAIN PART

It is necessary to further improve the quality of education in vocational schools in order to effectively implement the above tasks and achieve the set goal quickly and qualitatively.

We found it necessary to provide the necessary basic concepts (without proof) in order to free the students from referring to various manuals on theories and certain concepts during independent practical training. In giving these basic concepts, in the guide as a whole, an attempt was made to maintain the sequence of the university's program for teaching the course, but in order to maintain scientificity and facilitate the presentation of concepts, it was necessary to deviate from this principle.

Each paragraph is followed by several examples and problems with solutions, followed by a series of examples and problems for independent solution, and their answers are given at the end of the manual.

The topic "Rational equations" is considered as an example.

LESSON OBJECTIVE		
Educational	**Educational**	**Developer**
Teaching rational equations and methods of solving them.	To increase interest and respect for mathematics, encourage independent thinking.	Consolidate the topic, form new BKM in the minds of students.

When choosing examples and problems for independent solution, we tried to be as close as possible to the materials of general education schools.

It is also possible to divide into groups and give different tests on the subject.

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TEST:

OPTION 1

1. Multiply the units: $3a \times 6ab^2$

A)$18ab^2$ B)$18a^2b^2$ C) $2ab^2$ D) $9ab^2$

2. Divide the units: $16a^3b^2 : 4a^2b^2$

A) 4a B) 4ab C) $2ab^2$ D) $4a^2b^2$

3. Multiply the polynomial by the polynomial: $(a-2b)(a+2b)$

A)a^2-4b^2 B)a^2+4b^2 C)a-2b D)a+2b

4. Divide the polynomial into polynomials:$(18a^3+21a^2):(3a^2)$

A)6a B)13a C)$6a^3+7a^2$ D)6a+7

OPTION 2

1. Multiply the units: $2b \times 5ab^2$

A)10ab B)$10a^2b^2$ C)$10ab^3$ D)$10b^2$

2. Divide the units: $24a^3b^2 : 3a^2b^2$

A) 8a B) 8ab C) $6ab^2$ D) $8a^2b^2$

3. Multiply the polynomial by the polynomial: $(a-3b)(a+3b)$

A)a^2-9b^2 B)a^2+9b^2 C)a-3b D)a+9b

4. Divide the polynomial into polynomials: $(9a^3+24a^2):(3a^2)$

A)3a B)11a C)$3a^3+8a^2$ D)3a+8

Taking into account the complexity of the training, a training plan is initially drawn up. After that, the lecture text is prepared. While preparing the text of the lecture, it is necessary to study foreign sources as well as the books of local scientists. In particular, electronic resources and books related to the topic will be considered.

It is also advisable to conduct exercises or interactive games on various topics during the training.

"Mathematical dominoes" game

$a(2a+c)=$	$(3-2b)^2=$	$(7+m)^2=$
$(q-3p)^2=$	$c^2-d^2=$	$X^2-1=$
$(x-4)(x+4)=$	$9m(n+1)=$	$9m^2-25n^2=$

Make an anagram

A	V	T	K	D	R	A
I	M	A	K	S	A	O
I	A	E	M	N	A	D

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Such interactive exercises should be organized by dividing the audience into small groups. In this, healthy competition is formed between groups. And this is achieved by the active participation of all members of the group. The main thing is to ensure physical activity of the students during the exercise, it is also necessary to pay attention to working as a team. Through this, it is possible to repeat the subject and improve their physical and mental condition.

CONCLUSION

From this point of view, it is desirable to make the topics clear and understandable for the students of professional educational institutions in a simple way and to professionalize the lessons.

It is important to explain the topic in a practical way with real-life examples, which will attract the attention of the student and ensure that he understands the topic and remembers it for a long time.

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