



**ISSUES OF EXPLAINING TO STUDENTS OF VOCATIONAL
EDUCATION INSTITUTIONS THE IMPORTANCE OF MATHEMATICS
NOT ONLY AS A DEDUCTIVE SCIENCE, BUT ALSO FOR CREATIVE
AND SCIENTIFIC WORK**

Yusupova Xurshida Ikromovna

Teacher of Chust District Polytechnic College No. 2

Abstract: *The article discusses events in the field of professional education in Uzbekistan. In the professional educational institution, it was also discussed that mathematics is not only a deductive science, but also an important tool for creative and scientific work.*

Keywords: *Professional education, mathematics, geometry, algebra, deductive, creative, scientific.*

INTRODUCTION

Year after year, our country turns to face the world and creates its international image. For this reason, they also take into account international standards.

It is also implemented in the system of secondary specialized education.

It is known that in recent years, the lack of harmonization of vocational education programs in our country with the levels of the International Standard Classification of Education (ISCED) adopted by UNESCO, as well as the lack of full implementation of the National Qualifications System of Uzbekistan in the educational process do not allow trained personnel to take a worthy place in the labor market.

The requirement that the personnel trained in our republic meet world requirements has become relevant.

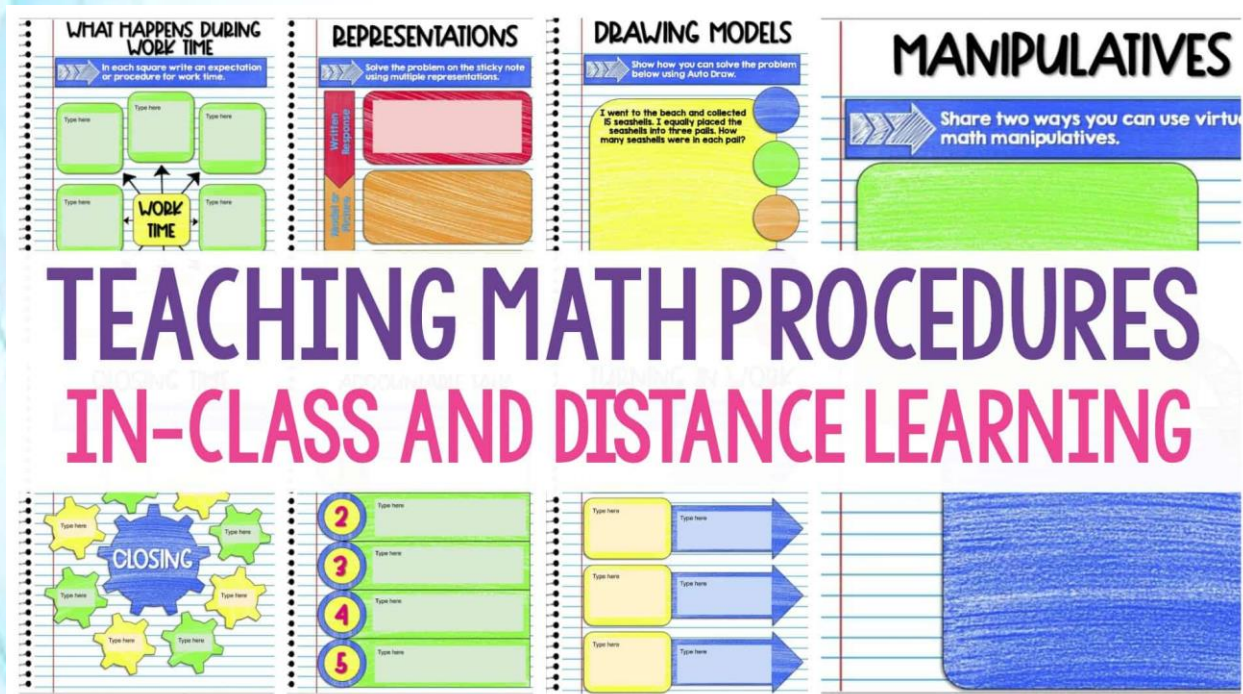
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MAIN PART



Mathematics should be seen not only as a deductive science, but also as an important tool for creative and scientific work. Its application plays an important role in scientific research, problem solving, and innovation. Examples of this are the following aspects:

1. Develop creative thinking. In addition to logical thinking, mathematics also helps to find creative solutions and develop new ideas. For example, geometry and algebra are used to create various models.
2. Scientific innovation. In the fields of physics, chemistry, biology, and even art, mathematical methods are one of the main tools for making discoveries.
3. Problem solving. Mathematical analysis and modeling are used to solve complex real-world problems. For example, decision-making processes in economics and technology are improved with the help of mathematical models.
4. Technological progress. The fields of artificial intelligence, cryptography, and engineering are based on mathematical concepts.



Therefore, mathematics should be seen not only as a deductive, rule-based science, but also as a tool for creative and innovative development. Thus, it can be studied more effectively and its application can be expanded.

CONCLUSION



Based on the above, it would be more useful for young people to organize lessons on the theoretical aspects of mathematics with practical and real-life examples. It is especially important to consider that students of vocational educational institutions are future mid-level workers.

From this point of view, it is advisable to professionalize the lessons, making the topics simple and understandable for students of vocational educational institutions.

It is important to explain the topic in a practical way, with real-life examples, which will attract the reader's attention, ensure understanding of the topic and its memorization for a long time.

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