

**FEATURES OF METHODOLOGICAL PREPARATION OF FUTURE  
ELEMENTARY SCHOOL TEACHERS IN TEACHING  
MATHEMATICAL PROBLEMS**

**Ergasheva M.B. (Republic of Uzbekistan)  
Email: Ergasheva510@scientifictext.ru**

*Ergasheva Matluba Burkhonovna - Lecturer,  
DEPARTMENT OF THEORY AND PRACTICE OF PRIMARY EDUCATION,  
FACULTY OF PRIMARY EDUCATION,  
JIZZAK STATE PEDAGOGICAL INSTITUTE,  
JIZZAK. REPUBLIC OF UZBEKISTAN*

**Abstract:** *this article focuses on the mathematical culture of graduates of elementary education and sports education in pedagogical higher education institutions, and future primary education teachers are targeted to help schoolchildren develop their thinking, creativity, and motivation in mathematics. At the end of the bachelor's degree, students are required to identify and improve the methodological training to work with elementary school students in general education. As a result, elementary school students will have the knowledge, skills and skill that can be easily solved in complex mathematical examples and issues in high school mathematics.*

**Keywords:** *mathematics, textbooks, methodology, methodological preparation, school, teacher mathematical culture, concept.*

**ОСОБЕННОСТИ МЕТОДИЧЕСКОЙ ПОДГОТОВКИ БУДУЩИХ  
УЧИТЕЛЕЙ НАЧАЛЬНЫХ КЛАССОВ К ОБУЧЕНИЮ  
МАТЕМАТИЧЕСКИМ ЗАДАЧАМ**

**Эргашева М.Б. (Республика Узбекистан)**

*Эргашева Матлюба Бурхоновна – преподаватель,  
кафедра теории и практики начального образования,  
факультет начального образования,  
Джизакский государственный педагогический институт,  
г. Джизак, Республика Узбекистан*

**Аннотация:** *в этой статье основное внимание уделяется математической культуре выпускников начального и спортивного образования в педагогических вузах, а будущие учителя начальных классов призваны помочь школьникам развить свое мышление, творческий потенциал и мотивацию в математике. По окончании бакалавриата студенты должны определить и усовершенствовать методическую подготовку для работы с учащимися начальной школы в общем образовании. В результате учащиеся начальной школы будут обладать*

*знаниями и навыками, которые могут быть легко решены на сложных математических примерах и задачах по математике в средней школе.*

**Ключевые слова:** *математика, учебники, методология, методическая подготовка, школа, учитель математической культуры, концепт.*

The methodical preparation of the students of the direction of "Primary education and sports education" in solving mathematical problems consists of thoroughly education in four main blocks: humanitarian and socio-economic; mathematics and natural science; general professional subjects and specialized subjects. The elementary mathematical course theory is included into the mathematics and natural-science disciplines, and the mathematical teaching methodology is included in the general professional science block.

The National Program of Personnel Training is designed to radically reform the continuing education and training process, where higher education plays a special role. One of the most important objectives of higher education institutions is to provide students with a high level of targeted education and training of qualified personnel based on modern curricula. Carrying out today's requirements for reforming higher education, first of all, imposes a high responsibility on a teacher [2].

The activities of the teacher of a higher education institution should be aimed at creating the conditions for the formation of the individual's needs and abilities for education.

The teacher having a deep and thorough knowledge of his / her profession should be a master of the pedagogical and psychological knowledge, the methodology and technology of teaching, based on the scientific knowledge required in the educational process [3].

The National Program of Personnel Training states the following: "The majority of teachers, pedagogues and educators have not been well trained, and their low level of knowledge and skills remains a serious problem and there is a lack of qualified teachers" [1].

The mathematical potential of the next generation will be determined by teaching elementary math class the mathematical teaching methodology. Thus, math science is one of the most important and necessary subjects to be studied in primary education.

In the process of multilevel methodological and mathematical preparation of the students of the elementary education and sports educational work is the acquisition of a system of scientific knowledge about human and society, history and culture, fundamental natural-scientific training, as well as the basics of vocational training in educational directions.

During this period, which lasted for four years, with a bachelor's degree, students must master the general chapters of mathematics, such as theory of collections, mathematical logic, enlargement, and magnitude. It is desirable to study the mathematical units that constitute the basis for elementary school

teachers in the I-V semesters of the first year curriculum, since first-year students consider the achievement of a bachelor's degree as a final goal (primary school teacher). For example, it is desirable to study the mathematical teaching methodology in the III-VI semesters, such as the creation of the nanocycle whole set of numbers and the different approaches to geometric materials.

At the end of the bachelor's degree, students are required to identify and improve the methodological training to work with elementary school students in general education. At the same time, the student is checked for the following features and abilities: targeted observation, identification of methodological and mathematical problems, to replace a number of concepts with one, more general one, separation of evidence from associations, using the language of symbols, passing the one method of solving problem to another, combining separate elements into a single unit, cross-linking the information and consciousness, flexibility, choosing the most optimal option among many options (looking at the solution options and choosing the best option, choosing alternatives and switching to the alternative option), linking new concepts with the previously described concept, creating ideas, seeing facts and circumstances in advance, and so on.

Such abilities in students serve as a basis for their efficient work and readiness to develop creativity in the elementary school learners. In the training of specialists (fourth year of education) is aimed at providing the specialists with high mathematical preparation to the relevant mathematical culture, which allows creation of creative person. As noted in the normative-legal acts of higher education, this stage consists of preparation of specialists with methodical training on independent creative professional activity.

Nowadays it is necessary to introduce graduates to methodological training, new concepts of education, quality and productivity in primary education, and others to make significant changes in methodological and mathematical preparation for students to work with elementary school students.

### *References / Список литературы*

1. *Karimov I.A.* «Ideal generation - the basis of development of Uzbekistan». Tashkent “Sharq”, 1998. P. 64.
2. *Yunusova D.I.* The theory and practice of preparing future mathematics teachers for innovative activity: Ped.fan.doc.diss. T., 2012. 362 b.
3. *Stoylova L.P.* Fundamentals of the Elementary Mathematics Course: For the students of pedagogical institutions. T.: "Teacher", 1991. P. 336.
4. *Tashpulatova M.* Improving the methodological training of future elementary school teachers, 2017. № 6. B. 25-28.