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Using Electronic Educational Resources in Teaching Algebra

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Annotation. ECM - Electronic Computing Machines. One of the most innovative ways to teach math today is through distance learning. Distance learning tools include a special screen and projector, an Internet browser, and online video, which can be used to teach a pre-selected topic remotely, mainly through videoconferencing.

Keywords. STEAM method, Intellect, propaedeutics, classification, problem situation, A.A.Stolyar, mathematical theory.

Problem solving plays a central role in the teaching of mathematics and can be recognized as both a tool and a goal of the learning process. From the student's point of view, the problem is the purpose of education, because it is understood as recording the solution of the problem in a notebook, getting the result and checking its correctness. From a teacher's point of view, the issue is a teaching tool. He suggests a problem to get results that will help him formulate a particular mathematical theory. In this case, it is necessary to talk about teaching mathematics according to the scheme of problems - theory - problems. A.A. Stolyar emphasizes the need to formulate problems arising from problematic situations in the field of nonmathematics and to formulate appropriate problems from them. The goal is to establish the fact that there is a lack of information in solving such problems using mathematical tools, which requires a deeper study of the theory. The processing of theoretical material is again done through problems (mathematical and practical). The diversity of issues makes it necessary to classify them on the basis of known choices. Such bases can be didactic purposes, executive tasks, structures, methods of solution, etc. In the process of teaching mathematics, the problems serve the following didactic purposes:

1. Increases interest in learning mathematics;
2. Creates a propaedeutics of the studied concepts and methods of action;
3. Helps to master theoretical materials (teaching problems);
4. Develops the ability to solve basic types of problems (coaching problems);
5. Helps to develop intellect, worldview, spiritual qualities (developmental issues). Achieving the didactic goals outlined above will help you achieve the goals of the whole education. In particular, certain types of issues help to achieve specific learning goals.

Decree of the President of the Republic of Uzbekistan Sh.M.Mirziyoyev dated September 5, 2018 "On additional measures to improve the management system of public education" PF-5538 and "Public education On the basis of the Resolution No. PQ-3931 "On measures to introduce new principles of governance in the education system" approved a program of measures to further improve the system of public education in 2018-2021. The document consists of five sections. I. Improving the legislation It is planned to adopt the Law "On the status of the teacher", which provides for: the status of the teacher, the definition of the principles of pedagogical activity; improving the system of teacher training; guarantees of protection of the prestige and dignity of the teacher, including the prohibition of the involvement of teachers in activities not related to their professional activities, in particular, to increase the responsibility of the perpetrators; strengthening the right to social security and individual pedagogical activity; establishing the right of teachers to form associations (unions) and other organizations in order to protect their professional rights and interests. The regulatory framework governing the activities of non-governmental educational institutions, the publication of educational and methodological literature and other areas of public education will be developed. Regulations for the provision of public services for the admission of children to secondary schools should be approved.

II. Improving the quality of education and introducing innovative educational technologies. It is planned to gradually introduce and improve the new state educational standards and general secondary education curricula, including the STEAM method. Public education institutions improve the quality of education based on best international practices. The Republic's participation will be facilitated by: the PISA International Student Achievement



Assessment Program (Mathematical Literacy, Reading and Science Literacy Assessment for 15-16 year olds); TIMSS in an international study on the quality of education in mathematics and science at school (assessment of literacy in mathematics and science in grades 4 and 8); PIRLS in an international study of text reading and comprehension quality (assessment of the level and quality of reading and comprehension of text by primary school students). In addition, our country participates in the international study of TALIS teaching and learning system (assessment of working conditions of teachers and the educational environment in schools). To develop mathematical literacy, the following requirements can be placed on their knowledge and skills: search and use of mathematical definitions, formulas and other facts from textbooks and reference books; apply knowledge, skills and graphic skills in algebra in different life situations; data collection, analysis, processing, synthesis; use of mathematical formulas, independently formulate formulas representing the relationship between quantities on the basis of generalization of certain special cases; apply mastered algebraic substitutions and functional graphic representations and representations in the expression and analysis of relevant objects in the environment or in other disciplines; to substantiate one's point of view, to participate in its discussion and to draw logically correct conclusions; work with mathematical text (analysis and extract the necessary information), be able to accurately and correctly express their ideas using mathematical terms, symbols and symbols, and express themselves orally and in writing; solve practical problems of life, if necessary, use the necessary reference and calculation tools to solve them, analyze tables, diagrams, real digital data in graphical form, as well as statistical data; use of modern information technologies as a means of solving mathematical problems of a practical nature. To solve the current situation, mathematics teachers are advised to pay attention to: correct and accurate formation of mathematical speech; highlight and apply mathematical content and methods in solving text problems; to translate the terms of the problem from the text to the mathematical language and to reveal the content and essence of these substitutions; to create problem situations for students to develop creative work skills and active mental activity. creation of differentiated individual trajectories of students in the educational process; Interactive and active learning technologies in the classroom: project method, case, game technology, problem-based learning, text work, cluster, poster, sinkway, BBB, FSMU, fish skeleton, lily of the valley.

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