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INTEGRATION OF NATURAL SCIENCES IN PRIMARY SCHOOL

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Annotation:
This article discusses ways to further improve cognitive efficiency by organizing the integration of natural sciences in elementary grades.

Keywords: STEAM, natural sciences, international assessment programs (PISA,TIMSS), creative approach.

Education is a joint activity of a teacher and students, in the process of which personal development, education and upbringing also take place. During the lesson, the teacher transmits his knowledge, skills and abilities to students through classes, while students acquire the opportunity to use them as they learn. Natural sciences is a science that deals with the description, prediction and understanding of natural phenomena based on observations and experiments, evidence. "Natural sciences" include natural sciences, the surrounding world, biology, geography, physics, chemistry and ensure their interrelation.

The inner motivation of the student occupies an important place in his interest in mastering the natural sciences, understanding through them the state of the natural and social environment, understanding environmental and human problems, the ability to make decisions in search of their solutions. The mutual integration of sciences creates prerequisites for students' awareness of nature as a whole, the emergence of a unified natural-scientific picture of the world in their thinking. At the same time, interdisciplinary integration is aimed at developing students' skills to comprehend the possibilities and problems of modern scientific and technological progress, the essence of environmental problems, ways of rational use of nature, principles of healthy lifestyle and their use in everyday life.

In the field of natural sciences based on Steam education, training is aimed at developing students' interest in conducting educational research, conducting

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experiments, design-oriented creativity, classroom innovation and extracurricular activities, showing that the acquired knowledge, skills and competencies are related to everyday life.

One of the main tasks of the teacher is the introduction into the consciousness of the younger generation of practical classes, laboratory work designed to work with tasks that meet the requirements of the international assessment program (Pisa, TIMSS), aimed at the formation of logical thinking and practical skills of students, as well as practical tasks that encourage independent performance and creative, creative thinking.

In the teaching of natural sciences, not only their mutual internal, but also external, i.e. integration with subjects that are part of related disciplines, is of great importance. In particular, close ties with the following areas of science are important:

Competencies formed through the native language and reading of academic subjects play an important role in the development of students' creative thinking when teaching natural sciences, the formation of skills for fluent presentation of their views in written and oral form, teaching the correct use of scientific terms and free communication during discussions.

The skills that mathematics is taught in the academic discipline are important for solving problems related to mathematical measurements and calculations in science lessons, in order to be able to find the optimal solution and make the right decision in the process of conducting laboratory and other experiments.

Computer science and information technology create huge opportunities to improve the efficiency of the process of teaching natural sciences through the discipline through the use of information and communication technologies and computer technology in various forms.

Competencies formed through a technological educational subject are of high professional importance in the process of teaching natural sciences for the professional orientation of students, the development of their technical creativity skills and the formation of skills for the preparation of creative projects. The natural science academic subject forms students' scientific and practical ideas about the natural and socio-economic object, processes and phenomena, natural conditions and riches of our Homeland, population and economy, geographical foundations of the relationship between nature and man, global and territorial

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problems of rational nature management and nature protection, develops independent thinking, the development of geographical knowledge. teaches to apply in practice. In the process of teaching the subject, special attention is paid to the formation of students' skills in using maps, environmental literacy. At the same time, the concepts and competencies formed as a result of teaching natural sciences in the elementary grade serve to form a complex idea of the object, phenomenon and processes studied in other natural sciences. Biology subjects form students' sense of an object and a system of living nature, the connection of living and inanimate nature. The skills of solving problems of the living environment are acquired, the socialization of students is improved. At the same time, a positive attitude towards the wildlife around us is formed, the preservation of natural color, as well as a strong life activity with a sense of responsibility.

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