

**THE ROLE AND SIGNIFICANCE OF PEDAGOGICAL TECHNOLOGIES IN
FORMING THE CREATIVITY OF STUDENTS IN THE ORGANIZATION OF
SCHOOL EDUCATION**

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Annatation: In the article, the benefits of modern achievements of pedagogy, in particular, the steam program, in the formation of the creative abilities of children of pre-school educational organizations are highlighted. Pedagogical diagnosis of pupils preparing for school based on this program has also been shown.

Key words: Pedagogical technology, Steam, Rocket, Electronic game, Logistics

The development of the state curriculum "State requirements for the development of children of primary and preschool age" and "Ilk Kadam" created wide opportunities for the effective implementation of preschool education in the continuous education system. In the curriculum, it is noted that it is important to take into account the characteristics and needs of children with their own characteristics when creating a developmental environment in a preschool education organization. At the same time, the content of the developmental environment is indicated as follows: - the content of the visual and developmental environment of the preschool educational organization is cultural and historical values; - national and regional traditions; - it should be compatible with the characteristics of nature and climate; - the content of the environment should help to form the foundations of the primary worldview, the successful social adaptation of the child. Of course, such innovations, aimed at updating preschool education both in form and content, require all pedagogues, starting from parents, to approach child education and his readiness for education based on the needs of the times. Processes in development centers organized in groups of pre-school educational organizations help children to constantly learn and consolidate new knowledge. The main goal of the development centers is to teach children to independently supplement their knowledge and adapt to the ongoing renewal processes. The development centers established on the basis of the program provide children with the following content: - acceptance and implementation of changes; - critical thinking; - make a choice; - to communicate problems; - manifestation of creative, thinking and inventive possibilities; - taking care of people, society, country, environment. Today's world is not the same as yesterday, and tomorrow will not be the same as today! Dynamically developing technologies are introduced in all spheres of human activity. 65% of today's children take occupations that do not exist today. Future specialists will need comprehensive education and knowledge from various fields of technology, science and engineering. In this regard, based on the STEAM program, it is more important than ever for our children - inventors, the future generation of discoverers, to conduct research as a scientist, form technology, design as an engineer, create as an artist, and think analytically as a mathematician through play. Today, STEAM-education is developing as one of the main trends in the world and is based on the integration of five fields into a single educational scheme using a practical approach. The conditions of such education are its continuity and the development of children's ability to communicate in groups, where they gather ideas and exchange ideas. Therefore, the core curriculum includes modules for the development of logical thinking, such as Legotechnologies, children's studies. STEAM (S-science, T-technology, E - engineering, A - art, M - mathematics) is a modern approach that combines science, technology, engineering, art and mathematics. STEAM helps children develop the following important characteristics and

skills: - Comprehensive understanding of problems; - Creative thinking; - Engineering approach; - Critical thinking; - Understanding and applying scientific methods; - Understand the fundamentals of design. This approach will help children solve life problems in the future. In many developed countries, including the United States, Japan, Israel, Singapore, and Russia, pre-school education organizations are effectively using this approach to develop children's creative and inventive abilities. Thanks to the STEAM approach, children understand nature and study the world regularly, and thereby develop their interest, they learn the engineering way of thinking, the ability to get out of critical situations, the development of teamwork, and the basics of leadership and self-expression, which, in turn, provides a completely new level of children's development. Building self-confidence. In this approach, children "launch" hand-made bridges and roads, planes and cars, "develop" and test underwater and aerial structures, each time getting closer to the goal. The "product" that did not give good results is repeatedly tested and improved. As a result, solving all problems by oneself, achieving the goal brings inspiration, victory, adrenaline and joy for children. Each victory instills more confidence in their abilities. Active communication and teamwork. STEAM programs are also characterized by active communication and group work. During the discussion stage, they learn not to be afraid to express their opinions. Most of the time, they are not sitting around a desk, testing and developing "products" based on their designs. They are always busy interacting with educators and their friends in a collaborative team. Development of interests in technical sciences. The task of STEAM education at preschool and elementary school age is to create the initial conditions for the development of interest. For children, in natural sciences and technical sciences, liking what they do is the basis for developing interest. STEAM is very interesting and dynamic for children, which prevents them from getting bored. They don't notice time passing, but they don't get tired either. His interest in building rockets, cars, bridges, skyscrapers, electronic games, factories, logistics networks, submarines, science and technology is increasing. Creative and innovative approaches to projects. STEAM education consists of six stages: question (task), discussions, design, construction, testing and improvement. These steps are the basis of a systematic project approach. In turn, cooperation or joint use of various opportunities is the basis of creativity. Thus, at the same time, the use of science and technology in children can create new innovations. A healthy socio-spiritual environment that is rationally organized encourages children to search, show initiative and show their creative abilities. In this case, educators must have a clear idea of how the child's development is progressing, and for this, it is necessary to constantly monitor them. Educators deliver educational material to children appropriately, taking into account their age characteristics. The role of the pedagogical team of preschool educational organizations is that they set appropriate goals, taking into account the interests, abilities and needs of each child, support the natural interests of children, develop the skills of joint mastery of existence in them. should be formed. Considering the uniqueness of child development, it is necessary to first understand that all children go through certain stages of development, but each child is unique and unrepeatable. In order to provide children with exactly the same, similar things and types of activities, educators should have a complete idea of their unique, different development indicators. Also, experts emphasize that educators should pay attention to the differences in abilities and interests of different children of the same age. This refers to the types of activities related to the uniqueness of child development, which respond to children's interests, that is, their level of mental, social and spiritual maturity. These types of activities are aimed at children's interest in nature, satisfaction from experience, and desire to test their ideas in an experiment. It is important to help children find answers to their own questions. After all, while searching for an answer to a question, the child's interest, reasoning and attention are

automatically activated. In this case, the role of the educator is to jointly search for ways to find an answer that satisfies the child without simplifying the question and without confusing the child with a lot of information.

In short, the humanization and socialization of education as the main principles of training modern specialists in our Republic; national and universal cultural values are clearly defined as their basis. In the words of our head of state: "We want not only the healthy physical and spiritual growth of our children, but also that they become harmoniously developed people with the most modern intellectual knowledge, a complete answer to the students of the 21st century. We have set ourselves the goal of creating all the necessary opportunities and conditions for them to grow up as a perfect generation. At the same time, today's personnel is professional the holistic educational process aimed at improving the preparation should be carried out taking into account high spiritual and moral qualities.

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