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Use of Steam Technologies in Primary Class Lessons

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Abstract. *In the article, the use of STEAM technologies in educational activities in primary education, by developing didactic methods of effectively organizing, mastering, and applying knowledge skills of students achieve the formation of work skills. Elucidation of methodical methods of effective use of STEAM technologies in primary education, evaluation of students' creative abilities based on didactic methods in training classes, and achievement of students' initial understanding of specific subjects.*

Keywords: *STEAM technology, Cluster, case-observation, research effectiveness, didactic methods, methodical indicators, indicator, efficiency, factors, level.*

A national curriculum was developed in Uzbekistan using foreign experiences. This is mentioned in the decree of the president "On measures to develop the fields of education and science in the period of new development of Uzbekistan" (PF-6108-number 06. 11.2020).

What is the national curriculum? The National Curriculum is a guidance document that explains the student outcomes at the end of each grade level and the transition from one grade to the next grade, what the student should achieve, and the assessment process. One of such changes is the STEAM approach in education. References: STEM / STEAM / STREAM new approaches are widespread in developed countries is being used and is being positively evaluated by the world community.

How does the STEAM approach affect academic performance? Its main idea

is that practice is as important as theoretical knowledge. That is, when we are studying we need to work not only with our brains, but also with our hands. Only on the walls of the classroom learning is not keeping pace with the rapidly changing world. The main difference of the STEAM approach

The fact is that children use both their brains and their hands to successfully learn various subjects they use They "read" the knowledge they received. STEAM education is not only a teaching method, rather, it is the education of logical thinking.

Integrating education not by academic subjects, but by "subjects". to carry In STEM education, interdisciplinary communication and design method are combined, and its based on the integration of natural sciences into technology, engineering into creativity and mathematics lies In this, preparation for professions related to engineering is carried out.The functions of the left hemisphere include analytical, inductive, deductive, critical thinking, language, reading and writing skills, while the functions of the right hemisphere include creativity, imagination, emotions, etc. Now, in turn, we have the question of why we need the STEAM approach. What are the advantages of STEAM educational technology?

One of the advantages of STEAM education is that it is an integration of subjects rather than subjects. Previously, the lessons were conducted in a linear form, now the lessons are conducted in a spiral form. Another advantage is the application of scientific and technical knowledge in real life. As we know, the new national curriculum PISA, PIRLS, TIMSS, EGRA, EGRA are being

created based on the educational programs of countries such as Finland, Japan, USA, which have taken the leading positions in international competitions. We can say that the advantage of applying scientific and technical knowledge in real life corresponds to the principle of "Practicality" in the Finnish education system. The advantages of STEAM are not limited to these: - development of critical thinking skills and problem solving; - gaining confidence in one's own abilities; - organizing active communication and teamwork - preparing students for technological innovations of life; - development of interest in technical sciences; - implementation of creative and innovative approaches to projects - a bridge between education and career; includes advantages such as of STEAM we have learned the advantages, now it is the turn at which stage in STEAM education?

The stages of implementation of STEAM educational technology are as follows: - creation of an actual problem situation that needs to be solved; - drawing up a plan to solve the problem; - creation of a prototype of construction and modules; - presentation of the final results of elimination of deficiencies; - evaluation of the work done; Today, raising a mature generation is one of the most important tasks. Fulfillment of this task mainly depends on pedagogues. For this purpose, it is necessary to pay a lot of attention to the education of young people. As stated by our head of state, we should direct young people to free thinking and independent life. In this regard, STEAM technology will come in handy. STEAM is a method of teaching natural sciences, technology, engineering, art and mathematics in harmony.

STEAM technology focuses on the combination of theoretical and practical knowledge. In the STEAM educational environment, children acquire knowledge and immediately learn to use it. If the topics given in the mother tongue and reading literacy, science, and mathematics textbooks of the 1-2 grades developed on the basis of the national program are organized on the basis of STEAM technology, the lessons will be organized. will be

In particular, each topic in natural sciences is presented in a theoretical and practical way. In particular, the subject of the planet Earth is given in the 2nd grade natural science. In studying this topic, students will have practical training along with theoretical knowledge. Pupils will make a model of the globe and the sun. This way they will learn about the rotation of the globe around the sun and at the same time they will come up with measures to eliminate the global problems of the globe. Based on this topic, students can be encouraged to know, think, work independently, and be creative. STEAM technology should be used wisely not only in classes, but also in extracurricular activities. If professionals are invited to the organization of classes, they will show practical knowledge of their profession along with theoretical knowledge, it will leave a good impression on the children. They will find their direction when choosing a profession in the future. In conclusion, one of the promising and priority directions for modern primary education is based on the development of students as mature individuals and education in the spirit of national values. It is recommended for students, researchers, and elementary school students to use this article to learn about the role of primary school teachers and students in modern education. The role of modern education is the future of Uzbekistan's youth.

References:

1. Mirziyoyev SH.M. “Erkin va farovon, demokratik O„zbekiston davlatini mard va olijanob xalqimiz bilan birga quramiz” mavzusidagi O„zbekiston Respublikasi Prezidenti IJODKOR O‘QITUVCHI JURNALI 5 MAY / 2023 YIL / 29 – SON 41 lavozimiga kirishish tantanali marosimiga bag„ishlangan Oliy Majlis palatalarining qo„shma majlisidagi nutqi. – T.: “O„zbekiston”, 2016.
2. O„zbekiston Respublikasi Prezidentining 2018 yil 5 sentabrdagi “Xalq ta“limi tizimiga boshqaruvning yangi tamoyillarini joriy etish chora-tadbirlari to„g„risida”gi PQ-3931- sonli qarori.
3. Avliyakulov N.X., Musayeva N.N. Pedagogik texnologiyalar. – T.: “Fan va texnologiyalar” nashriyoti, 2008 yil.

4. G.Yeldasheva, G.Karimova-Ta„lim-tarbiya texnologiyalari va jahon tajribasi moduli bo„yicha o„quv-uslubiy majmuasi. Toshkent. 2018 yil.
5. Karimova S.S. THE ROLE AND IMPORTANCE OF" NATURAL SCIENCES" IN THE DEVELOPMENT OF UNDERSTANDING OF NATURE IN GENERAL SECONDARY SCHOOLS. http://scientists.uz/uploads/202206/B-43.pdf
6. Karimova, S. (2022). THE ROLE AND IMPORTANCE OF" NATURAL SCIENCES" IN THE DEVELOPMENT OF UNDERSTANDING OF NATURE IN GENERAL SECONDARY SCHOOLS. Science and innovation, 1(B6), 214-218.
7. Karimova, Sevara. "CHARACTERISTICS OF NATURAL TEACHING METHODOLOGHY."Oriental renaissance: Innovative, educational, natural and socialsciences1.11(2021):737-740. https://cyberleninka.ru/article/n/characteristics-of-natural-teaching-methodologny.
8. Karimova Sevara “Didactic Features Of Development Of Nature Perception Skills Of Primary School Students”In volume 19, of Eurasian Journal of Learning and Academic Teaching (EJLAT) April 2023.
9. Qizi K. S. S. FORMATION OF NATURE AWARENESS SKILLS OF PRIMARY SCHOOL STUDENTS //International Scientific and Current Research Conferences. – 2023. – C. 43-45.
10. Mamatova , . H., Karimova, S., & Mamayusupova, . Z. (2023). PEDAGOGICAL ANALYSIS IN THE WORKS OF ALISHER NAVOI. Modern Science and Research, 2(9), 5–8. Retrieved from https://inlibrary.uz/index.php/science-research/article/view/23865
11. Pedagogik texnologiya. N.X.Avliyakulov, N.N.Musaeva. –T.: Chopon NMIU, 2012. 90-bet.
12. Innovatsion ta’lim texnologiyalari / Muslimov N.A., Usmonboyeva M.H., Sayfurov D.M., To‘rayev A.B. – Toshkent: 2015. 168-bet.
13. Qizi K. S. S. FORMATION OF NATURE AWARENESS SKILLS OF PRIMARY SCHOOL STUDENTS //International Scientific and Current Research Conferences. – 2023. – C. 43-45.