ORIGINAL ARTICLE

INTERNATIONAL JOURNAL OF ARTIFICIAL INTELLIGENCE

ISSN: 2692-5206, Impact Factor: 12,23
American Academic publishers, volume 05, issue 03,2025

Journal: https://www.academicpublishers.org/journals/index.php/ijai

THE USE OF DIGITAL TECHNOLOGIES IN TEACHING MATHEMATICS IN PRIMARY EDUCATION

Scientific leader: ***Navruzov Ulugbek Bababekovich***
Chdpu, teacher of the Department of mathematics and Natural Sciences in primary education
ulugbeknavrozov1@gmail.com tel:97-398-72-11

Ilhomboyeva Dilnura Xurshid kizi

Chdpu Primary Education Faculty 1st Stage Student

Sultonmuratova Oyjamol

Chdpu Primary Education Faculty 1st Stage Student

Annotation: In this article, the issue of effective organization of the course process through interesting, necessary techniques using digital technologies in teaching mathematics to elementary students, provides opportunities for developing students ' mathematical skills, increasing their interest, making classes more interactive, useful. With the help of digital tools, students receive new knowledge more easily, conditions are created for them to demonstrate their creativity in the process of solving problems, lessons are more interesting, effective. As a result, classes organized using digital technologies serve to increase the level of knowledge of students, strengthen their interest in mathematics, improve the quality of general education.

Keywords: Digital technology, mathematics, Electronic Development, Information Technology, Computer Technology.

Digital technologies are important in the effective organization of classes in the educational system. Nowadays, computer and information technology are entering our lives. Computers provide the ability to retrieve and process data. That is why these tools were introduced into the educational process. Through interesting materials, students become interested in the lesson and master the materials mentioned. In order for them to master the lesson, the teacher can show them illustrated assignments and various games using digital technology. There are also mobile applications for learning mathematics. One of these is the application" mathematical resourcefulness " oğzaki calculation ability cultivation. The application displays the available algorithms for fast computing. Today, in raising the educational system to the level of World educational standards, the pedagogical team of educational institutions should radically change its activities. Each educator has the task of improving the quality of mastering science. Various techniques are also used in teaching mathematics in this regard.

One of the pressing issues is the creation of electronic variants of subjects,the introduction of information technology into the educational process and the creation of modern software. For elementary school mathematicians, the creation of electronic developments, the use of Information Technology in classes, and on the basis of this, the methodology for conducting classes was produced. Text, graphics, animation and test assignments are also developed, the main section of Electronic Development.

ORIGINAL ARTICLE

INTERNATIONAL JOURNAL OF ARTIFICIAL INTELLIGENCE

ISSN: 2692-5206, Impact Factor: 12,23
American Academic publishers, volume 05, issue 03,2025

Journal: https://www.academicpublishers.org/journals/index.php/ijai

In mathematics, didactic games are used only to reinforce the material studied. The elementary school teacher provides for the transfer of the following knowledge to students according to the program compiled in mathematics.

- Numbering of Whole unknown numbers;
- Basic quantities and their units of measurement;
- Arithmetic operations;
- Text issues;
- Algebraic material;
- Geometric material;

The specific aspects of the mathematics lesson, above all, come from the fact that this is one of the characteristics of the subject of study.

Digital technologies are mainly used in digital electronics, primarily in computers, in various fields of electrical engineering, such as gaming machines, robotics, automation, measuring instruments, radio and telecommunications devices, and many other digital devices.The advantages of digital technology are that computer-controlled digital systems can be controlled through software, new features can be added to programs without making changes.In digital systems, it is easier to store information, and in this case, the noise resistance of systems allows you to store and retrieve data without harm.Digital systems can be used to compute complex issues i.e. algorithms.

For example, electronic whiteboards are organized in schools.Such technologies have a huge impact on the development of the educational system.When explaining spatial forms to students in a mathematics lesson, such devices are the same provision. Taking the topic" spatial shapes:cone, cylinder, sphere", an electronic board is easily created in explaining these.These forms can be cut into different pieces through an electronic board and taught in cases such as spreading, back, picked up.That is, it has the property of turning the shapes around the side you want them to look 3D.

But, the disadvantages of digital devices are also mavjud.Ba in some cases, such systems require and consume more power, generating more heat.In some cases, however, loss or disruption of single-digit information causes larger volumes of data to change or disappear altogether.

In conclusion, the transition of mathematics to elementary students using modern Information Technologies is considered one of the types of non-traditional classes. Electronic lesson developments allow students to fully understand the topic. When using motion images and animated, the imagination of the reader expands.

References:

1. Shakhlo Nasrullayevna Djumayevna "the use of innovative technologies in teaching mathematics in elementary grades". International conference 532-535b.

2. Divanova M.S, Alimova S.Q., Alimov O.N the use of Information Technology in teaching mathematics in elementary grades 46 PP .

3. Turdikulova Makhbuba Khudoykulovna " opportunities for modern implementation of the teaching of mathematics in elementary grades.Nauka xxl Vega N°=8 2018.