

Volume: 22 | 2022

ISSN: 2545-0573

USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES (ICT) IN EDUCATION

Usmanov Bakhodir Islamovich

Candidate of Economic Sciences, Associate Professor of Department of Methods of Teaching Exact and Natural Sciences

A R T I C L E I N F O.	Abstract
ARTICLEINFO. Keywords: Electronic board, educational space, information processing, technology, information system, multimedia, telecommunications, networking, components and equipment.	The modern period of development of society is characterized by a strong influence on it of computer technologies that penetrate into all spheres of human activity, ensure the dissemination of information flows in society, forming a global information space. An integral and important part of these processes is the computerization of education. At present, a new education system is being formed in Uzbekistan, focused on entering the global information and educational space. The use of modern technologies makes it possible to make the lesson interesting, vivid, more memorable, which allows us to hope that the lesson will not pass without a trace for each student. If you are a modern teacher looking for more and more opportunities to present material in the classroom, if you need good learning outcomes, if you are ready to learn new technologies, then, of course, you should use IT tools in your lessons. IT is a new look at the professional life of a teacher, it is a new tool for attracting attention, increasing student motivation and achieving the quality of knowledge with the help
	of modern technologies. http://www.gospodarkainnowacje.pl/©2022 LWAB.

Introduction

As practice shows, it is already impossible to imagine a modern school without new information technologies. Lessons using IT are becoming habitual for primary school students, and for teachers they are becoming the norm of work - this, in my opinion, is one of the important results of innovative work in the practice. Computers have long and firmly entered our lives. They radically changed the world and the possibilities of people. With the advent of computers in schools, the professional life of a teacher has also changed. The use of computer technology in the educational environment is already a necessity dictated by today's standard of living and technical progress.

In our age of digital technologies, the competence of a teacher, his ability to solve professional pedagogical problems with the involvement of information and communication technologies become an important component of his professionalism. The teacher should not only acquaint students with ICT

technologies, but also teach them competently, apply these technologies in their activities, contributing to the formation of IT competence in them.

Over the past several years, the number of students who know how to use a computer has increased by about 10 times. As most researchers note, these trends will accelerate regardless of education process. However, as revealed in many studies, children are mostly familiar with computer game programs and use computer technology for entertainment. At the same time, cognitive, in particular educational, motives for working with a computer are approximately in twentieth place.

Thus, the computer is not used enough to solve cognitive and educational problems.

One of the reasons for this situation is related to the fact that computer technologies in school have not yet found their proper application. In schools where children are taught on the computer, not all of its capabilities are fully realized. Most of institutions teachers are not even familiar with computer technology and have no idea how to use it in teaching. Lessons using a computer in most cases are taught by computer science teachers, who, due to the specifics of their training, poorly represent the conditions that must be observed when using computer technology in teaching specific subjects.

The problem of the widespread use of computer technologies in the field of education in the last decade has attracted increased interest in domestic pedagogical science.

The use of IT in the process of teaching and educating schoolchildren increases the overall level of the educational process, enhancing the cognitive activity of students. But in order to teach students like this, one desire is not enough. The teacher needs to master a number of skills:

The main skills are:

- > technical, that is, the skills necessary to work on a computer as the use of standard software;
- > methodical, that is, the skills necessary for the competent education of schoolchildren;
- Technological, that is, the skills necessary for the competent use of information teaching aids in various lessons conducted at institute.

The use of ICT in the educational process allows:

- \checkmark rationally use the time of the training session;
- \checkmark visualize the learning process;
- ✓ increase cognitive activity;
- ✓ enhance educational effects;
- \checkmark to implement a differentiated approach to students with different levels of readiness for learning;
- ✓ quickly and efficiently replicate didactic manuals, handouts;
- ✓ search and use of information from the Internet for the preparation of lessons, practical work on the subject, design and research work;
- \checkmark create tasks to check and control the assimilation of the material covered;
- \checkmark improve the quality of mastering the educational process;
- ✓ maintaining an electronic journal, e-mail, compiling reports, schedules, teacher documentation and holding parent meetings, for extracurricular activities, participation in competitions, quizzes, olympiads of various levels, developing games in subjects;
- ✓ promptly exchange work experience and methodological materials with colleagues;
- \checkmark Make the learning process accessible and interesting for children.



One of the most successful forms of preparing and presenting educational material for lessons is the creation of multimedia presentations.

Multimedia presentations are a convenient and efficient way of presenting using computer programs. It combines dynamics, sound and image, that is, those factors that hold the attention of the child for the longest time. Simultaneous impact on the two most important organs of perception (hearing and vision) can achieve a much greater effect.

The methodological strength of multimedia lies precisely in the fact that it is easier for a student to be interested and educate when he perceives a coordinated stream of sound and visual images, and not only informational, but also emotional impact is exerted on him. Moreover, the presentation allows the teacher to independently compose the educational material, based on the characteristics of a particular class, topic, subject, which allows you to build a lesson in such a way as to achieve the maximum educational effect.

Interactive board is like a godsend for education process that are ready to work with computer technology. Mastering and using an interactive whiteboard (ID) in a lesson is a mandatory element of the State Educational Standard. Interactive whiteboards in the lessons at school are used to teach various subjects and are used in extracurricular activities. Its use allows realizing the creative potential of children, improving the quality of education, and meeting the realities of today. You can use this miracle of modern technology in every lesson as a visual and illustrative method, as a simulator. Prepare holidays, class hours with the class, speak with various information at teachers' councils, parent meetings, etc. students can simultaneously see, hear, read, pronounce, write, play, sing, watch movies, work with various discs and much more.

Our young generation with great pleasure perceives information received from electronic sources. The use of an interactive whiteboard and educational resources in a lesson makes the lesson not only more interesting, but also effective.

I would like to note the advantages of ID for both teachers and students:

- the use of an interactive whiteboard in the classroom makes lessons bright, teachers choose different learning styles, work with various digital educational resources, focus on the needs of age groups, the ability to create and conduct surveys in real time;
- Students get more opportunities for active participation in the educational process; better understand complex material, get great opportunities for the development of creativity and independence.

A mobile computer class for this process is an excellent solution that allows not only storing and delivering computer equipment to the place of study, but also quickly deploying a wireless computer network in any classroom. The mobile class gives teachers the opportunity to improve the forms of presentation of educational material. The teacher in this case acts not only in the status of a source of knowledge, but also in the role of a coordinator, a mentor. The use of a mobile class is effective at all stages of the pedagogical process: at the stage of presenting educational information, at the stage of assimilation of educational material in the process of interactive interaction with a computer, at the stage of intermediate and final control and self-control of the achieved learning outcomes.

IT significantly help the teacher in his work, in the lessons with the use of information technology, the educational process is aimed at developing logical and critical thinking, imagination, independence. Learners are interested, attached to creative search; the mental activity of everyone is activated. The process becomes not boring, monotonous, but creative. And the emotional background of the lesson becomes more favorable, which is very important for the educational activity of the child.



It must be remembered that IT is not a goal, but a means of learning. Computerization should concern only that part of the educational process where it is really needed. After all, the ill-conceived use of the computer affects the health of children. The continuous duration of classes with a PC should not exceed for students: 1st grade - 10 minutes; 2 - 5 classes - 15 minutes.

Thus, the use of information and communication technologies at school is not just a new trend of the times, but a necessity and a search for a new meaning of the lesson. As a teacher who actively implements multimedia lessons in her daily work, I can say that younger students are active, creative and purposeful.

One of the areas of using IT in the implementation of the educational system of the class is the holding of class events, parent meetings. The use of IT tools makes it possible to make these events more visual, mobile and interesting, and most importantly, it allows them to attract more students and their parents to their organization.

The use of IT opportunities is contributes to:

- \checkmark increasing motivation for learning;
- \checkmark increasing the efficiency of the educational process due to a high degree of visibility;
- ✓ activation of cognitive activity, improvement of the quality of schoolchildren's progress;
- ✓ development of visual-figurative, informational thinking;
- ✓ development of self-education and self-control skills in younger students;
- \checkmark increasing the activity and initiative of younger students in the classroom;
- ✓ Increasing the level of learning comfort.

All this allows us to talk about improving the quality of the teacher's work.

Conclusion

With the advent of IT, the work of a teacher has become much more efficient, more agile, and faster. Now the teacher can listen to the audio fragment, watch the video sequence and use other multimedia features in the lessons while studying the material. Students have an interest, a desire to see and learn more. The use of IT in primary school allows increasing the level of interest of schoolchildren, as well as the level of knowledge quality. This technology should certainly act as an auxiliary element of the educational process, allowing involving vision and hearing in the process of perception, connect the imagination and develop memory. Information and communication technologies open up great scope for creativity for a teacher, since the materials for the lesson can be presented in the form of presentations; in fragments of the lesson, you can use video, audio files, pictures from the Internet; interactive licensed applications for educational programs; tables, diagrams, schemes and drawings. Of course, in order for all materials created with the help of IT to be interesting, informative, the teacher must improve his professional training in the field of IT. IT can be used at any stage of the lesson. To prepare such lessons, the teacher needs technical literacy, the ability to work with a computer and application programs, the ability to build a lesson in accordance with the goals and objectives set, to combine all the stages in it, to introduce IT tools into the structure of the lesson. Visual-figurative thinking among primary school students is dominant, therefore, in my work, when preparing and conducting lessons, I use modern IT to improve the quality of knowledge among students, to involve all students in the learning process, for greater interest in the learning process and personal motivation of each student. At the lessons of literary reading, I demonstrate portraits of writers on the screen, the places where they lived and worked, I show screen adaptations of some works, I demonstrate illustrations for the works of various authors, I do vocabulary work using images. But a simpler and more versatile program that can be used in any lesson without exception is PowerPoint. A



577



modern presentation allows you to combine audio and video information, which facilitates the process of perception and memorization. This fact is confirmed by many studies: a person remembers more than

half of the information provided, if it is both heard and seen.

References

- 1. Grigoriev S.G., Grinshkun V.V. The textbook is a step towards the educational system "Informatization of Education". // In the collection of scientific works "Problems of the school textbook". / Scientific and methodical publication. M.: ISMO RAO, 2005. S. 219-222.
- 2. Guzeev VV System bases of educational technology. M.: Knowledge, 1995. 1
- 3. Singh A. Use of information and communication technologies (ICT) in education //International Journal of Education and Management Studies. 2017. T. 7. № 3. C. 323-325.

