

## **The Use of Technological Aids and Devices in the Classroom of Primary Schools**

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**ABSTRACT:** The following article aims at defining the contemporary techno-literate primary level teachers. The article emphasizes the advantages of information technologies in the creation of healthy atmosphere in primary level classes. Didactic features of these devices have been discussed. It compares the benefits of this type of techniques with those without these kinds of teaching aids.

**KEYWORDS:** teacher, internet, information technologies, primary school teacher, personal computer, lesson, interactive whiteboard.

### **INTRODUCTION**

A teacher who keeps up with the times is today psychologically and technically ready to use information technology in teaching. Any stage of the lesson can be revived by introducing new technical means. The inclusion of international technological devices in the educational process allows the teacher to organize different forms of educational and cognitive activities in the classroom, to make active and purposeful and independent work of students. IT can be seen as a means of accessing educational information, providing the ability to search, collect and work with the source, including the network, Internet, as well as a means of delivery and storage of information. IT use in educational process allows you to improve the quality of educational material and enhance educational effects. One of the results of education and upbringing in the first stage school should be readiness of children to master modern computer technologies and the ability to update information obtained with their help for further self-education. To implement these purposes, there is a need for the primary school teacher to use information and communication technologies in the educational process.

The main goal of ICT implementation is the emergence of new types of educational activities. Using personal computer, multimedia programs and devices allows primary level teachers to change teaching school subjects, optimize the processes of understanding, memorization and assimilation of the students of the educational material, thereby increasing the motivation for learning and the effectiveness of the lesson, and also ensuring the implementation of developmental learning,

improving forms and methods of organization of the educational process. The use of IT in various lessons in primary school allows:

- To develop the ability of students to navigate the information flows of the surrounding world;
- To organize at the same time children with different abilities and skills
- To master practical ways of working with information;
- To develop skills to exchange information using modern technical means;
- To intensify the cognitive activity of students;
- To conduct lessons at a high aesthetic level (music, animation);
- To assess pupils using individual approach via multilevel assignments

The use of IT in various lessons in primary school allows you to move from an explanatory illustrated way of teaching to an activity-based one, in which the child becomes active in the educational activity. This contributes to the conscious assimilation of students' knowledge. The computer allows the teacher to significantly expand the possibilities of presentation of different types of information. With a didactically correct approach, the computer activates the attention of students, enhances their motivation, it develops cognitive processes, thinking, attention, imagination and fantasy. New information technologies of teaching also have certain didactic opportunities:

- source of information;
- method to increase the degree of clarity;
- way to organize and direct perception;
- it fully meets the interests and needs of students;
- it creates an emotional attitude of students towards educational information, a positive motivation;
- it is also additional material that leads out of bounds of compulsory level.

The introduction of information technology in the educational process is considered to be:

- ✓ Not as a goal, but as another way for students to comprehend the world;
- ✓ As a source of additional information on subjects;
- ✓ As a way of self-education for teachers and students;
- ✓ As an opportunity to implement a student-centered approach to learning.

The use of new IT in various lessons gives advantages over the standard system of learning as in the following:

1. huge amount of interest, motivation for educational activities increases;
2. a differentiated approach is being implemented;
3. each student becomes a subject of the learning process;
4. for the same period of time, the volume of work performed is much larger;

5. the process of control and assessment of knowledge is facilitated;
6. developing habits of learning activities (planning, reflection, self-control, mutual control).

In elementary school, the child's leading activity changes from game for educational one. Using your computer's gaming capabilities in conjunction with didactics allows you to make the process smoother. At the same time, all the obligatory educational material is translated into bright, engaging, with a reasonable amount of playful approach, a multimedia form with extensive use of graphics, animation, including interactive, sound effects and voice guidance, including video clips.

Younger schoolchildren are distinguished by the sharpness and freshness of perception, which is explained by age-related features of higher nervous activity. With lively curiosity, children perceive the environment and everything new. The perception of primary school students is characterized by a pronounced emotionality. In primary school age, involuntary attention is developed, which ensures the following:

- ✓ Concentration of the effectiveness of the lesson;
- ✓ Organization of individual survey mode;
- ✓ Boost of student interest in the lesson.

Thus, the introduction of new information technologies into the educational process of the initial school allows you to use the cognitive and play needs of students in an accessible form for cognitive processes and the development of individual qualities.

A modern multimedia lesson is built according to the same structure as a traditional one:

- Actualization of knowledge, explanation of new material, consolidation, control can be applied in the same way.
- The same methods: explanatory and illustrative, reproductive, partial search and others.

Multimedia tools allow you to provide the implementation of the principle of visibility, which has a leading place in educational technologies of primary school. Application of multimedia presentations allows you to make lessons more interesting and dynamic, includes in the process of perception not only sight, but also hearing, emotions, imagination, facilitates the process of memorizing the studied material by students, helps to "immerse" the student in the subject of study, to create the illusion of co-presence, empathy with the object under study, to promote the formation in volumetric and vivid performances. Thus, facilitating the process of perception and memorization of information with the help of bright images are the foundation of any modern presentation. Moreover, the presentation enables the teacher to independently compose educational material based on the characteristics of a particular class, topic, subject, that allows you to structure the lesson in such a way as to achieve the maximum educational effect. Multimedia presentations should be as in the following:

- They depict things that cannot be conveyed in words quickly and intelligibly;
- They arouse interest and make the process of transferring information diverse;
- They enhance the impact of the performance.

You can use presentations at all stages of the lesson. This can be during the actualization of knowledge, and explaining new material, consolidation part. Using presentation programs helps to feel psychologically comfortable students in the classroom. You can repeatedly return to any slide in the presentation, delving into all the subtleties of the lesson being studied. Leverage the rich graphics, sound and interactive capabilities of your computer creates a favorable emotional background in the classroom, contributing to the development of the student as would be unnoticed by him, playfully. The Internet is a new information phenomenon.

The Internet:

- expands the types of educational activities of students (search and processing of information on subject from the Internet),
- provides opportunities for professional creative communication and operational exchange of information,
- provides opportunities for professional growth,
- opens up new creative possibilities for the teacher on the selection of the use didactic material,
- allows you to use modern technical means in the lesson, fascinating for students: educational programs, educational games and tests in the subject.

The advantages of using Internet technologies can be divided into two groups: technical and didactic. The technical advantages are speed, maneuverability, efficiency, the ability to view and listen to fragments and other multimedia functions. Of course, the use of IT in each lesson is quite difficult and time-consuming, since the role and responsibility of the teacher increases. He always has to be in search of techniques and means of organizing educational and cognitive activities of students so that the lesson becomes the most informative, productive, and most importantly - unforgettable. Therefore, modern the teacher must be competent. The use of IT more fully develops students' creativity and skills, research activities, teaches children to work with information, develops communicative ability, familiarizes students with the achievements of the information society.

Computer technology can be applied to almost any school subject. According to V.G. Belinsky: "Without striving for the new things, there is no life, no development, no progress." The task of each teacher is not only to give children knowledge, but also to teach your pupils to look for them and master them on their own. Ability to process information today is a very valuable asset.

Knowledge of information and communication technologies greatly facilitates preparation for lesson, makes lessons unconventional, memorable, interesting, more dynamic.

Textbooks with electronic attachments will provide special assistance to teachers. They will help answer such always topical questions like how to teach; how to create an educational

environment in the classroom corresponding to the new way of learning; how to most effectively implement the tasks set by the Federal State Educational Standard. Therefore, the use of electronic didactic tools in the educational process is designed to support the effectiveness of independent cognitive activity of trainees, maintaining dialogue in solving educational and applied problems, teaching management, man-machine solution of professionally oriented problems.

Consequently, electronic teaching aids should be the main part of the software and methodological complex, which provides the ability to perform various types of work.

The interactive whiteboard is a valuable teaching tool for the entire class. It is a visual resource which helps teachers present new material in a very lively and exciting way. It allows you to present information using various multimedia resources, teachers and students can comment on the material and study it in as much detail as possible. It can simplify the explanation of diagrams and help you understand a complex problem. Teachers can use the whiteboard to make presentation of ideas in an exciting and dynamic way. Boards allow learners to interact with new material. They are also a valuable tool for educators when explaining abstract ideas and concepts. On the board, you can easily change information or move objects to create new ones.

Teachers can reason out loud, commenting on their actions, gradually involve students and encourage them to write ideas on the whiteboard.

IT implementation is carried out in the following areas:

- Creation of presentations for lessons;
- Working with Internet resources;
- Use of ready-made training programs;
- Development and use of our own copyright programs.

One of the most successful forms of preparation and presentation of educational material for lessons in elementary school can be called the creation of multimedia presentations. 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 so as to achieve maximum training effect.

Presentations allow the teacher to:

- visualize the material;
- intensify the process of explaining new material;
- adjust the volume and speed of displayed information through animation.

Internet as a teaching tool:

- Expands the types of educational activities of students (search and processing of information on subject from the Internet);

- Provides opportunities for professional creative communication and operational exchange of information;
- Provides opportunities for professional growth;
- Opens up creative opportunities for the teacher in the selection and use of didactic material;
- Allows you to use modern technical means in the lesson, fascinating for students.

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