

## DIGITAL TEACHING TOOLS

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### Abstract

In this era of technology the influence of technology in school context is of huge importance. In most cases the tasks of teachers are being replaced by technology. The following article looks into the digital tools to improve the efficiency and quality of classes.

### Key Words:

Digital, cloud, Skype, Moodle, Kahoot, Online whiteboard.

A digital school implies free access to electronic educational content and wide opportunities for individualizing the educational process, taking into account the abilities of each student. The volume of electronic content is increasing - textbooks are being digitized, online courses are being developed. The requirements to use electronic resources in teaching have been spelled out in the federal state educational standards since September 2015 - all school textbooks today must have electronic versions. Electronic educational content provides more opportunities to acquire knowledge on your own, navigate large amounts of information - this is the quality that employers need in the digital economy. The role of the teacher is transformed from a translator of knowledge into the function of a mentor, guiding the student along the most individualized learning path.

Today's digital learning technologies are:

A toolkit for optimal delivery of information data to students. A set of tools that allows you to create a variety of educational materials. Tools that optimize teaching methods.

The teaching tools can be divided into several groups:

#### **Digital tools for monitoring student knowledge.**

Kahoot is a service for creating online quizzes, tests and surveys. It will take a matter of minutes to create your own lesson in this service. Plus, you can choose from over 30 million pre-made templates! Students can answer teacher-created tests from tablets, laptops, smartphones, that is, from any device that has access to the Internet. Missions created in Kahoot allow you to include photos and even video clips. The pace of execution of quizzes, tests is regulated by introducing a time limit for each question. If desired, the teacher can enter points for answering the questions posed: for correct answers and for speed. The scoreboard is displayed on the monitor of the teacher's computer. To participate in the test, students simply have to open the service and enter the PIN that the teacher presents from their computer.

Quizshaya, Simpoll - services for creating quizzes, web tools for conducting express surveys, tests, quizzes on various subjects.

Plickers is a poll format resource, very non-standard, interesting, it implies automatic collection of information from the class, and the audience can be huge, there are no obvious restrictions. Each child has an answer card on which there is a graphic code (essentially a QR code). The teacher has a phone or tablet with a server installed. When questioning, the students, answering, raise their card, the teacher, using the phone camera, takes the answers, and the service automatically analyzes them, and immediately gives the result. And you understand how many people answered.

### Cloud technologies.

Skype is a messenger from Microsoft that allows you to communicate with users via text messages, audio and video calls. Alice, Siri is an Artificial Intelligence based voice assistant that can recognize human speech, give voice responses, and execute specific commands. Imagine that your devoted friend is always next to you, who is ready to talk to you at any time of the day or night, answer any of your questions and carry out assignments. At the same time, he never gets tired, he never has a bad mood, and every day he becomes smarter and understands you better. These are the voice assistants that are available for everyday use today.

Online Whiteboard (Miro.com, Bitpaper.io, Witeboard.io) is an online discussion and problem-setting platform that allows you to draw diagrams, make diagrams, attach stickers, and comment on uploaded sketches or screenshots.

In fact, this is the same interactive whiteboard that you can use with all the tools in the form of pencils, markers, and so on and so forth. But with all this, you have already adapted it and filled with a number of templates that you can use, that is, you can create a space for yourself in the broadcast mode on the projector and gradually fill it with various ideas, various projects, and notes. For example, there are templates for brainstorming, mapping, etc. You can go in different directions and build your space in your own way, as it suits you.

#### **Digital tools for extracurricular activities.**

Fotor - this resource is more related to the preparation of materials for the presentation. Fotor is available online and has a mobile app. It is handy for creating various collages. For example, when children perform practical, project work, they record their result using mobile devices. Next, this footage needs to be edited in color change mode, adding filters, correction, or you want everything to be in black and white. In this case, Fotor is the most optimal service from this point of view. There are basic visual effects, all kinds of frames, etc.

Flora Incognita is a unique app for biology, geography and elementary school teachers! This is an application for smartphones and iPads that will allow you to easily identify the name of any plant on the planet. The application has a Russian-language version. With your smartphone camera, you take a photo of a flower, then a leaf, and after a few seconds, you get a suggestion for the name of the plant.

In addition to identifying a plant, users receive additional information about characteristics, distribution or protection status. This application can be used in biology lessons, including excursion and practical classes, both in primary grades and in high school, for project activities, environmental research in educational institutions for environmental education and awareness.

QR codes. At what stage of the lesson it is used, well, in fact, it is up to you, it can be used as an element of certain motivation, there can be such a cool technique in the lesson - discovery, a lesson in discovering new knowledge, encrypted in QR codes assignments and hang them in your class. Give the task to students to find QR codes, scan them using mobile devices and gather the necessary knowledge.

#### **Digital tools for organizing and conducting distance courses.**

Google Classroom is a virtual classroom management system. Here you can issue assignments and control, create full-fledged online courses and group projects.

Moodle is a free learning management system focused primarily on organizing interaction between teacher and students, suitable for organizing traditional distance courses, as well as supporting full-time learning. Using Moodle, you can create courses, filling them with content in the form of texts, auxiliary files, presentations, questionnaires, etc.

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