Application of Innovative Technologies in the Life and Practical Activities of Primary School Students

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ABSTRACT

In this article, you can learn new proposals for the use of QR codes in education, the use of innovative technologies during lessons, and outside of lessons to interest children.

KEYWORDS: IT-sphere, QR-code or barcode, quick response, interactive tools, digital laboratories, educational and cognitive activities

Modern society sets before the school the task of preparing a creative and responsible graduate who will subsequently be able to transform the life of his country in all its spheres, such as science, creativity, economics, politics, etc. This becomes possible only when the student himself wants to learn new and know the world. The school can only push to this by means of new, more interesting teaching methods for students, modern educational technologies. If you compose a portrait of a modern student, you can see that more and more the lives of modern children are occupied with new technologies.

Currently, the IT sphere is very well developed, but not always new technologies can interact with the school, because they imply a high level of teacher training, as well as considerable financial investments. However, today many schools are already using digital labs, projectors, interactive whiteboards, and more. In today's world, it will be difficult to do without mobile and computer devices. This article goes into detail about QR codes as a more interesting interactive learning tool in the modern school.

The QR code (translated from English (quickresponse) means "quick response") is a matrix code developed by the Japanese company "Denso-Wave" in 1994. The ancestors of the QR code are a linear one-dimensional barcode, which was used mainly in trade and contained brief information about the product. The main disadvantage of such coding is the small amount of information that can be embedded in this code. For example, the most common linear barcode of the EAN-13 type contains only 13 characters.

The QR code allows users with smartphones to quickly receive a variety of information on their mobile devices in a short time. According to statistics in Germany in 2011, the use of QR codes increased by about 70%. Exactly the same situation happened in the countries of Europe and the USA. The practice of such coding was widespread in Japan. This code was applied to almost all products, as well as information and advertising brochures. Anything can be encoded under this code, be it a video from a website, a page on social networks, a phone number. For educational

purposes, you can: encode links that direct students to an educational site with information that helps to solve a specific problem; place such codes on information, newsstands; use the QR code right in the lesson, in the form of coded assignments of the test or test to check the assimilation of the educational material by students and much more, it's all about your imagination. QR codes can be used absolutely everywhere: from a simple sheet of paper to huge newsstands. It won't take a teacher too much time and effort to create this code. Currently, there are a huge number of special services that allow you to generate such a code in a few clicks, which can be saved on a computer and subsequently used wherever you want. And for reading QR codes today there are a huge number of special programs that are suitable for all models of smartphones.

I want to offer another convenience for parents and primary school teachers. Now in schools, in order to get the schedule, parents come and write off the schedule, which is attached to the door of students' offices. Therefore, I want to suggest creating class tables and adding timetable barcodes, then we could save time for both parents and teachers.

In conclusion, I would like to note that the QR code is not some kind of, as they say now, "trend", but has been used for quite a long period of time. It is simple and convenient to use, and the number of methods of application is limitless, as already mentioned, it all depends only on the person's imagination. As for education, this is a very effective method of involving children in educational and cognitive activities, and also creates convenience for both parents and teachers.

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