THE IMPORTANCE OF INTERACTIVE WHITEBOARD IN COMPUTER SCIENCE LESSONS

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Abstract. This article focuses on the significance of interactive whiteboards in computer science lessons. Interactive whiteboards are modern educational tools that enhance the teaching and learning process by providing a dynamic and engaging environment. They enable the integration of multimedia resources, facilitate collaborative activities, and improve students' understanding of complex concepts in computer science.
Keywords: Computer, method, monitor, technology.

INTRODUCTION

An interactive whiteboard is a new generation multimedia tool, and who, if not a computer science teacher, can use new technologies in teaching? Using an interactive whiteboard in computer science lessons will allow teaching to be conducted at a fundamentally new qualitative level, using all the advantages of modern computer technologies [10]. Today, it is simply ridiculous and ineffective for a computer science teacher to explain with chalk in hand how Word, Excel or any other program works. Working on the board with an electronic marker, a teacher can quickly and clearly demonstrate a particular technique for working with a program to the entire class at once, rather than explaining the same thing to everyone at their computer.

MATERIALS AND METHODS

An interactive whiteboard is a "mix" of a computer and a regular whiteboard. With the help of special markers, you can display pictures, maps, diagrams, create and move objects, use video and animation, highlight important points with color, and work with any computer programs. Moreover, an interactive whiteboard also has the functions of a regular whiteboard. The role of the usual chalk is performed by an electronic marker. You can simply write on it with a marker, and erase the inscriptions with an "eraser" [10].

An interactive whiteboard is only a tool that can become a good assistant. [5]. The effectiveness of working with a whiteboard largely depends on the teacher himself, on how he uses these or those of its capabilities.

Interactive whiteboards can be used both when working in a large audience and in small groups. With their help, you can diversify the learning process: a teacher can give a lecture using text, audio and video materials, DVD, CD-ROM and Internet resources at the same time. You can write and make notes on top of all documents, diagrams and web pages using the "Pen" tool.

RESULTS AND DISCUSSION

Any information displayed on the interactive whiteboard can be printed, saved, emailed, and posted on a website.

Interactive whiteboards come with software. Its capabilities vary depending on the manufacturer. Some programs allow you to work with text and objects on the board, save information, and convert written text into printed text. Others include summary materials and offer special features for working in the classroom.

Working with interactive whiteboards involves simple but creative use of materials. Files or pages can be prepared in advance and linked to other resources that will be available in class. When developing lessons using an interactive whiteboard in computer science classes, I most often use software called SmartNotebook, since this program contains a large set of additional tools for the teacher.

On the interactive whiteboard, you can easily move objects and texts, add comments to texts, pictures and diagrams, highlight key areas and add colors. In addition, texts, pictures or graphs can be hidden and then shown at key moments in the lecture. All this happens at the board in front of the whole class, which undoubtedly attracts everyone's attention [7]. Pre-prepared texts, tables, diagrams, pictures, music, maps, thematic CD-ROMs, as well as adding hyperlinks to multimedia files and Internet resources set a brisk pace for the lesson: you do not have to spend a lot of time writing text on a regular board or moving from the screen to the keyboard.

All diagrams, charts, and graphs can be adjusted directly on the screen using the Pen, Eraser, and Selection tools, and notes can be saved for future lessons. Files from previous lessons can always be opened and the material covered can be repeated [8].

Teaching with interactive whiteboards differs significantly from traditional teaching methods, although the basics for successfully conducting a lesson are the same. The structure of a lesson using interactive devices can change [6]. And in some cases, an interactive whiteboard can become an indispensable assistant, for example, in the so-called inductive teaching method, when students come to certain conclusions by sorting the information they receive.

During a lesson, you can classify the material in different ways using the various capabilities of the board: move objects, work with color, while involving students in the process, who can then work independently in small groups. Sometimes, you can draw students' attention to the board again so that they share their thoughts and discuss them before continuing to work. However, it is important to understand that the effect of using interactive technologies largely depends on the teacher himself, on how he uses certain capabilities of the board.

The interactive whiteboard is a valuable tool for whole-class learning. It is a visual resource that helps present new material in a lively and engaging way. It allows information to be presented using a variety of multimedia resources, allowing teachers and students to comment on the material and explore it in as much detail as possible. It can simplify the explanation of diagrams and help to understand a complex problem.

When I work with the interactive whiteboard, I try to make the presentation of ideas exciting and dynamic. The whiteboard allows students to interact with new material and is also a valuable tool for explaining abstract ideas and concepts. Having used the interactive whiteboard for three years now, I have found that interactive whiteboards make lessons engaging for both the teacher and students by using a variety of dynamic resources and improving motivation.

CONCLUSION

I believe that the main purpose of the interactive whiteboard in teaching computer science is to develop students' cognitive activity by optimizing the learning process, increasing its clarity and content. In addition, I would like to note the social role. Children cannot respect an outdated teacher. Increasing information competence, including through working with an interactive whiteboard, increases the teacher's chances of overcoming this outdatedness. I believe that today it is impossible to teach children living in a world of high technology to teachers who do not possess these technologies.

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