EDUCATIONAL TECHNOLOGIES IN TEACHING AND LEARNING

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Abstract: Technology in the classroom is any digital tool used to enrich and support student learning. Teachers utilize technology early in the lesson planning stage by engaging students in learning. Technology organization is a crucial function for teachers for running an efficient classroom. Technology has become an integral part of modern education, and many teachers are using various forms of technology to engage their students in the classroom. From interactive whiteboards and tablets to online learning platforms.

Keywords: Virtual reality simulation, digital tools, online learning platform, website, communication,

Introduction: Technology in the classroom is an important tool for a variety of areas of instruction and teacher organization. A teacher engages with technology early in the planning and should only consider incorporating technology into a lesson when it is suitable, enhances a unit, or aids learning. In this article, we will explore effective ways to work with using technology in the classes and provide practical tips for managing and supporting students with different learning needs.

Literature review: Technology has become an integral part of modern education, and many teachers are using various forms of technology to have interaction their students in the classroom. From interactive whiteboards and tablets to online studying systems and Virtual Reality simulations, there are numerous methods that technology can be used to enhance scholar engagement.

One of the key benefits of the use of technology in the classroom is that it could provide students with a more interactive and dynamic studying experience. For example, teachers can use interactive whiteboards to give multimedia content material and facilitate in-class activities, or they could use tablets to provide students with access to virtual studying resources. This can help students stay engaged and motivated, as they are able to take part in hands-on, experiential learning activities rather than just listening to lectures or reading from a textbook. Another way that technology can be used to enhance student engagement is by providing opportunities for collaboration and communication. Online studying systems and social media tools can be used to create virtual learning communities where students can share ideas, ask

questions, and get feedback from their peers and teachers. This can help students feel more connected to the learning process and can encourage them to take an active role of their education. In addition to providing interactive and collaborative learning experiences, generation also can be used to customize training and meet the needs of diverse learners. For example, teachers can use adaptive learning software to create custom designed learning paths for individual students, based on their strengths and weaknesses. This can help students feel more connected to the material and can encourage them to take possession in their personal studying. Of course, it's important to remember that technology is just one tool among many that teachers can use to engage their students. It's important to find the right balance between using technology and other teaching strategies, and to consider the needs and options of individual students.

According to scientists: Paul Saettler's 'The Evolution of American Educational Technology' (1990) is one of the most extensive historical accounts.

By 2008, George Siemens, Stephen Downes and Dave Cormier in Canada were using web technology to create the first 'connectivist' Massive Open Online Course (MOOC), a community of practice that linked webinar presentations and/or blog posts by experts to participants' blogs and tweets, with just over 2,000 enrollments. The courses were open to anyone and had no formal assessment. In 2012, two Stanford University professors launched a lecture-capture based MOOC on artificial intelligence, attracting more than 100,000 students, and since then MOOCs have expanded rapidly around the world.

Arpanet in the U.S.A was the first network to use the Internet protocol in 1982. In the late 1970s, Murray Turoff and Roxanne Hiltz at the New Jersey Institute of Technology were experimenting with blended learning, using NJIT's internal computer network. They combined classroom teaching with online discussion forums, and termed this 'computer-mediated communication' or CMC (Hiltz and Turoff, 1978). At the University of Guelph in Canada, an off-the-shelf software system called CoSy was developed in the 1980s that allowed for online threaded group discussion forums, a predecessor to today's forums contained in learning management systems.

Methodology

Technology helps students learn more (and better). Students study in different methods. In a traditional lesson, a teacher presents material, and students all engage with it in the same way. The entire class is expected to move through the content at the same pace. As you can imagine, there's very little room for freedom when teaching thirty students the same things in the same ways during the same time frames. But that doesn't have to be the case.

Online tools give students more flexible learning experiences. Some students might use a YouTube video tutorial to better understand a concept. Others might

complete an online activity or game that provides instant feedback so they know if they're on the right track. Students who understand the material right away can find more difficult problems or activities to supplement their knowledge, while those who need more practice can use a different activity that provides more repetition. In other words, technology offers variety to students in a way that a typical classroom lecture cannot.

As the standard classroom size continues to grow, generation provides a way to make it seem a bit smaller and more manageable. Students can get instant comments from online resources even if the classroom teacher cannot be available for an entire class all at once. Computers can provide students various levels of instruction based on their individual learning needs. When classes were smaller, a teacher could differentiate individual lessons for each student. with larger classes, technology can help teachers differentiate for all students in the classroom. There are plenty of programs, sites, and tutorials that offer students instant help whether they're at home or at school. These help teachers provide individual instruction and give them time to work one on one with students while others advance at their personal tempo the use of on-line tools.

Conclusion

In conclusion, technology is a tool that can improve education in many ways. Teachers, students, and parents all benefit from free online resources, personalized learning materials, and opportunities for advanced learning. School districts can adopt new technology knowing that they're making a sound investment in the future of their students. By incorporating digital tools and platforms, teachers can create engaging and personalized learning environments that foster student success. However, it is crucial to use technology judiciously and consider the individual needs and preferences of students to ensure an effective and balanced approach to instruction. After all, technology's not going anywhere — it's a powerful asset in any modern classroom.There are several effective ways to use technology to teach young people. Some of the best methods include:

Utilize interactive learning platforms and educational apps to engage students in learning activities. These platforms can provide personalized learning experiences and allow students to learn at their own pace.

Use online collaboration tools to facilitate group projects and discussions among students. This can help them develop teamwork and communication skills.

Implement the flipped classroom model, where students learn new concepts through online videos and resources at home, and then use class time for hands-on activities and discussions.

Use adaptive learning technology to personalize the learning experience for each student based on their individual needs and abilities.

By incorporating these methods, educators can effectively use technology to enhance the learning experience for young people and help them develop essential skills for the future.

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