

Research paper

Technology and Science in the Classroom

Student's Name

Course Number

Institution

Technology and Science in the Classroom

The current century can be characterized by an explosion of numerous technologies and the education system has not been left out. Different technological innovations have been created with an aim of addressing the learning experience. With respect to this, classroom technology has become an integral part of the learning experience. Integration of the classroom and technology builds upon the possibility of students to gain support within their learning environment. Technologies such as smart whiteboards and LCD projectors have been introduced in order to provide teachers with an approach they can utilize in engaging with their students (Meador, 2019). As such, this paper discusses the different technologies that can be incorporated in a classroom for educational purposes.

Acikalin (2014) argues that educational centres globally should make steps towards investing on technology as part of the learning process. In the United States, about 94% of schools apply the use of technology to engage the learning of their students (Acikalin, 2014). Among the forms of technology used in the classroom are computers and other technological devices such as tablets and smartphones. Many students are forced to study and attend classes just to become part of the norm, however, with the use of technology, they can easily be persuaded to gain an interest in learning. With regards to this, in the classroom, teachers have incorporated the use of laptops, tablets and other devices that enable students to use in their learning. This approach presents students with a means to gain more interest in their lessons. Consequently, the use of computers as well as other learning devices presents students with a means to gain more knowledge in their fields of study by carrying out research on the internet. At some point, there is need to attract the attention of these students and give them a reason to grow their appreciation of learning.

Another form of technology used in the classroom is digital cameras. This type of technology presents educators as well as students with the ability to assess and access images in their learning. Images are well recognized for their importance in interpreting scientific concepts. As such, advancements in technology have been seen as focusing on the advancement of science related digitally enabled photographic interpretation of scientific concepts. In addition, the technology has also enhanced the viability of students capturing their own visual information. Perhaps, it can be argued that the most omnipresent tech in the current educational system is digital cameras.

Further, within a classroom projectors are another type of technology applied with the aim of offering educators and students a variety of methods they can use in providing and understanding the relevant educational information (Meador, 2019). A lot of scientific ideas have been identified as challenging to some students aiming at understanding them. As a result of their complex, abstract and difficult nature, projectors are used in providing learners with a visual and interpretive approach of different learning concepts that can be viewed by an entire classroom, regardless of the size (Chen & Looi, 2010). Certain studies have identified the significant benefits that technology holds in the interpretation of the scientific concepts. Among these technologies is the use of visual, models and multiple representations

in making the concepts easily understood by students, such as the use of a projector in a classroom. Practically, curriculum innovations should help current educational goals to be successful, and research should not be created solely because technology allows them. As such, by use of technology, school transparency in recent years has gained greater emphasis.

Additionally, the use of podcasts or any other audio or visual technology in the classroom offers teachers a unique way of addressing their lessons to the maximum. By use of these technologies, students are able to learn and understand what is taught without losing interest. In addition, another reason that makes technology a benefit is that it keeps students focused for a longer time. In the classroom, students often get distracted or become tired of hearing the lessons provided by their professors endlessly (Acikalin, 2014). Hence, having a different method of getting the information enables them to engage with the instructor and the information shared. In addition, a different voice breaks monotony that improves the listening as well concentration skills of students.

Another form of technology that can be applied in a classroom is the use of the Google Classroom technology. Through the technology, students are able to travel to any region of the world and even outer space by simply connecting to the web. This provides them with the ability to engage more with the scientific world at a greater depth (Yildirim & Sensoy, 2018). Google Classroom, helps students in carrying out research and completing assignments. Additionally, it broadens their learning experience as well as knowledge.

In the 21st century, the use of technology is regarded as one of the most important aspects that promote engagement of people with their operations. Therefore, learning on the use of technology enables students in developing the skills that are needed in the current century. They learn how to think objectively, improve through communication methods and skills in leadership that help people; therefore, by using technology, students are able to grow their future careers. Therefore, it is arguably important that students learn the application of technology in their education. Technology builds the interests of students to perform and become better in their endeavours as learners. They are given an opportunity to engage with and build on their future careers by learning on the application of technology and its importance in their daily lives. As such, educational technology presents a scope of education that builds a student's interest in learning as well as interactive for the teacher. Hence, through the use of technology, learning is improved.

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