

ENHANCING LEARNING AND ENGAGEMENT IN MATHEMATICS THROUGH THE USE OF TECHNOLOGY

by:

Lucena D. Santos

Teacher III, Justice Emilio Angeles Gancayco Memorial High School

Technology has become an integral part of our daily lives, and it has also made its way into the classroom. The use of technology in mathematics instruction has the potential to enhance students' learning and engagement.

One of the most popular examples technology is used in mathematics instruction is through digital manipulatives. These interactive tools allow students to visualize and explore mathematical concepts in a way that is not possible with traditional manipulatives. For example, students can use digital protractors to measure angles or use virtual manipulatives to explore geometric shapes and transformations.

Another way technology is used in mathematics instruction is through the use of online resources and learning management systems. These resources provide students with access to interactive tutorials, videos, and quizzes that can help them to better understand mathematical concepts. Additionally, online resources can be used to provide students with feedback on their work and to track their progress over time.

Technology can also be utilized to support collaborative learning in mathematics. For example, students can use online tools such as Google Docs or Slack to work on projects and assignments together. This can help to promote teamwork and communication skills and can also help students to learn from one another.

Technology can also be employed to support differentiated instruction in mathematics. For example, students who need extra help can use online resources such as Khan Academy or IXL to work on specific skills, while students who are ready for more

advanced material can access online resources such as the National Council of Teachers of Mathematics or the American Mathematical Society.

Finally, technology can be used to support assessment and evaluation in mathematics. For example, teachers can use online quizzes and assessments to track student progress over time and to provide students with immediate feedback on their work. Additionally, technology can be used to support portfolio assessments, which provide students with an opportunity to demonstrate their understanding of mathematical concepts in a variety of ways.

References:

Himmelsbach, V. (2022 May 11). How education technology in the classroom can impact student learning. Top Hat. <https://tophat.com/blog/how-does-technology-impact-student-learning/>