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Providing students' authentic learning experience through 3D printing technology.

Toh, Pee Choon (ed.) et al., Learning experiences to promote mathematics learning. Yearbook 2014, Association of Mathematics Educators. Hackensack, NJ: World Scientific; (ISBN 978-981-4612-90-6/hbk; 978-981-4612-93-7/ebook). 67-92 (2014).

Summary: Authentic learning has been shown to help connect students' classroom learning to the outside world. Linking what students are learning in class to the real world enables them to better understand the problems they may face in real-world environments. Technologies can play an important role in supporting students' learning in an authentic environment. In this chapter, we explore the attributes of an authentic learning environment and 3D printing technology. Based on these attributes, we demonstrate how utilizing 3D printing technology to perform mathematics tasks gives students an authentic learning experience.

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