

## ABSTRACT

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*Augmented Reality is a technology that combines the two-dimensional or three-dimensional virtual object into a real three-dimensional environment and then projecting the virtual objects in real time. Unlike virtual reality that completely replaces reality, augmented reality simply add or supplement reality. Augmented Reality will change the way we view the world, or at least the way users see the world. Mathematics is the basic science of knowledge and technology. Geometry is one of the math material on elementary school (SD) in 5th grade. This material discusses about geometries like cubes, blocks, tubes, cone, prism, pyramid and ball. In the development of mathematics learning by using Augmented Reality technology regarding the material geometry, but in learning applications that created only display geometrical shape without providing a material that related with material of geometry such formulas and example of calculation at each geometry. More interactive learning in order to increase motivation, and student interest in geometry. And with this learning application, can help teachers to ease the delivery of material geometry by utilizing the AR technology as a medium of learning.*

*Keywords: Augmented Reality (AR), Mathematics and Geometry*