

Using GeoGebra to develop primary school students' understanding of reflection

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GeoGebra provides a resourceful teaching environment for mathematics that offers educators the possibility to develop new ways to connect, extend, and enrich their instructional activities in order to promote students' understanding of mathematical concepts. This paper presents a sequence of instructional activities with GeoGebra for the teaching of reflection in primary school. It aims to demonstrate the way in which GeoGebra can be used to design an instructional program based on the stages of the 5Es instructional model. The 5Es is a student-centered model for teaching and it consists of the following five stages: engagement, exploration, explanation, elaboration/extension, and evaluation. Each stage has a specific function and can be viewed either as an instructional stage contributing to teachers' coherent instruction, or as a learning process for students' construction of a better understanding of concepts. We discuss the way in which GeoGebra offers a rich environment which supports the functions of all stages.

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