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Understanding students' understanding of functions.

Math. Teach. Inc. Micromath 2008, No. 207, 10-13 (2008).

From the introduction: In this article, we present results from a pilot study in which students made poster presentations that required them to use, and translate among, various modes of representations (such as formulae, tables, graphs, and verbal descriptions). We investigated the extent to which this helped promote their understanding of functions. We conducted this study in two ninth-grade (age 14-15) classes.

Classification: I23

Keywords: modes of representations; graphical representations; graph of a function; diagrams; visualization; concretizing; concept formation; comprehension; learning; transfer of training