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Knuth, Eric J.; Hartmann, Christopher E.

Using technology to foster students' mathematical understandings and intuitions.

Masalski, William J. et al., Technology-supported mathematics learning environments. Sixty-seventh yearbook. Reston, VA: National Council of Teachers of Mathematics (NCTM), (ISBN 0-87353-569-3). 151-164 (2005).

Summary: In the article, several illustrations of how technology might be used to engage students in conceptual conversations and, consequently, to foster students' understandings and intuitions are presented and discussed in three examples: Viewing the relationships in a system of equations; Exploring images of fit in a best-fit line; Using dynamically linked models to generate explanations (sine function behavior).

Classification: U70 R20 D30

Keywords: computer as educational medium; modes of representation; visualization