

ZMATH 1997c.01921

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The quest for meaning in students' mathematical modelling activity.

Puig, L. et al., 20th Conference of the International Group for the Psychology of Mathematics Education (PME 20). Proceedings. Vol. 3. ,. 345-352 (1996).

The central claim that every mathematical model is based on a certain interpretation of reality motivates the search and examination of the meanings that support students' modelling activity. In this quest for meaning and its evolution we analysed three episodes extracted from a modelling activity developed by a group of four 10th grade students. Our results strongly support the conclusion that students' models are mediated by their particular interpretations and dialogic activity, and by their mathematical, technological and symbolical tools. (orig.)

Classification: M13