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Mathematical modeling in realistic mathematics education

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Abstract

The purpose of this paper is to produce Mathematical modelling in Realistics Mathematics Education of Junior High School. This study used development research consisting of 3 stages, namely analysis, design and evaluation. The success criteria of this study were obtained in the form of local instruction theory for school mathematical modelling learning which was valid and practical for students. The data were analyzed using descriptive analysis method as follows: (1) walk through, analysis based on the expert comments in the expert review to get Hypothetical Learning Trajectory for valid mathematical modelling learning; (2) analyzing the results of the review in one to one and small group to gain practicality. Based on the expert validation and students' opinion and answers, the obtained mathematical modeling problem in Realistics Mathematics Education was valid and practical.

Keywords: mathematical modeling, Realistic Mathematics Education, junior high school mathematics, hypothetical

Full text

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