IMPACT OF PERSONALIZATION OF MATHEMATICAL WORD PROBLEMS ON STUDENT PERFORMANCE

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ABSTRACT

This research investigated the impact of personalizing mathematical word problems using individual student interests on student problem-solving performance. Ten word problems were selected randomly from a mathematics textbook to create a series of two assessments. Both assessments contained problems exactly as they appeared in the textbook and problems that were personalized using student interests based on student-completed interest inventories. Fourth-grade students' scores on the non-personalized and personalized problems were compared to investigate potential achievement differences. The scores were then disaggregated to examine the impact of reading ability and problem type on the treatment outcomes. The results showed no significant increase in student achievement when the personalization treatment was used regardless of student reading ability or word problem type (t = –.10, p = .46).

FULL TEXT:

PDF

REFBACKS

- There are currently no refbacks.