



TRANSLATION-BASED INSTRUCTIONAL MATERIALS IN MATHEMATICS AND PROBLEM-SOLVING ABILITIES OF GRADE 5 PUPILS

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ABSTRACT

Problem-solving ability is an ability to solve problems in an effective and timely manner without any impediments. It involves being able to identify and define the problem, planning a strategy, generating alternative solutions, evaluating and selecting the best alternative, implementing the selected solution and re-checking the solution by looking back at the process. Learning the translation actions such as situations, table, graph and formula (symbolic) is a substantial support to develop differentiated activities that will help the students develop their problem-solving abilities. To support, this study introduced the use of translation action in a developed instructional material which assessed its effect in improving the problem-solving abilities of the students. The use of one group pre-test and post-test research design led in achieving the objectives of the study participated by thirty (30) Grade five students, during the academic year 2020-2021. The result showed a significant difference between the pre-test and post-test scores performance of the student-respondents, which implies that the use of the translation action helped students improve their problem-solving abilities. This indicates that from beginning to developing in mastery level of solving problem were able to reach appropriate mastery to mastery level of performance. Also, the use of the developed instructional material encourages students to do more activities at this time of pandemic. The study suggests that teachers may use the translation-based instructional material as an added worksheet since it can be helpful in improving the mathematical skills and abilities of the students in solving word problems.

Keywords: Translation Action, Problem-Solving Abilities, Translation-Based Instructional Material, Situations, Table, Graph, Formulae