Reflective Learning Resource Material and the Mathematics Learning Outcome of Grade 9 Students

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ABSTRACT

Students' high achievement is one of the main concerns of every mathematics teacher. The use of different learning strategies is necessary to help learners address their difficulties in mathematical skills and fully understand the lesson. Meanwhile, the lack of organized actual teaching-learning processes within the classroom affects students' scholastic achievement. To address this, the study aimed to determine the impact of the developed learning resource material in the mathematics learning outcome of the learners in terms of analysis, representation and problem-solving skills. The study used a descriptive research design utilizing the pretest/posttest assessment and survey questionnaire as the main instruments which led to achieving its objectives with 35 Grade 9 students as respondents of the school year 2020-2021. The results of the study revealed that reflective learning resource material is highly effective in improving the mathematics learning outcome of the students. Further, findings resulted in a significant difference and an increase in the mathematics learning outcome assessment on analysis, representation, and problem-solving skills which imply that the use of reflective learning resource material helped the students improve. This indicates that from approaching proficiency in analysis skills, representation from developing and proficiency level, and development in problem-solving skills, the learners were able to reach advanced and proficient levels, indicating mastery of the competencies. In certain ways, this demonstrates that the student's reflection in the use of RLRM has a good significant relationship with their mathematics learning outcome. This result suggests that incorporating reflective learning resource material into students' learning activities improved their mathematics learning outcome.

Keywords: reflective learning resource material, mathematics learning outcome, analysis, representation, and problem-solving skills