ABSTRACT

Aulia Eka Rahma, NIM 4193151017. (2023) The Effect of STEM-PjBL Model on Creative Thinking Skills in Environmental Pollution Material of SMP Negeri 37 Medan.

This study aims to determine the effect of the STEM-PjBL model on students creative thinking skills in environmental pollution topic on seventh grade. The quasi-experimental design of the nonequivalent pretest-posttest control group was used in this study. The samples of this study consisted of two classes, the control class of 31 students and the experiment class of 32 students. The control class taught by conventional learning model, while the experimental class taught by STEM-PjBL model. Data collection technique test instrument was test instrument of 25 valid multiple choice questions. The test instrument used the multiple-choice questions. The questions consisted of 25 questions to measure students learning creative thinking skills. The average result score of the students creative thinking skills in the experimental class was 91,00 while the average of student result score in the control class was 61,16. The difference in students learning outcomes on creative thinking skills was 29,84 on the postest result of the experimental class and the control class. The result of t-Test was 0,03 obtained from the 2-tailed significance value and the result of treatment effect size was 0,98 in high result (≥0,80 very high category) by using the treatment effect size cohen test partial eta squared. The results showed that there was a significant effect of the STEM-PjBL model on students creative thinking skills.

Keyword : *Creative Thinking Skills, Environmental Pollution, STEM-PjBL.*