

ABSTRACT

Sridarwati Tarigan Number 4163332008(2023). The Effect Of Problem Based Learning (PBL) Oriented Lesson Study With Intractive Powerpoint Toward Critical Thinking Ability In Materials Buffer Solution

The purpose of this research is To determine the increase in students' critical thinking skills through the Problem-Based Learning (PBL) model based on lesson study with interactive PowerPoint. The population in this study were all students of the class of XI IPA SMAN 1 Tanah Pinem. The sample taken using simple random sampling were selected to get 2 class, the experiment class (35 students), and the experiment class I (35 students). This study design was a natural experiment with pretest-posttest control group design forms.

It was found that, the average student learning outcomes before the experiment class I was 27.13 while in the experiment class II it was 23.75. After post-test, the experiment class score was 85.25 and critical thinking ability was 58.89, while the experiment class I score was 78.25 and critical thinking skills was 51.80. The results were obtained $r_{count} > r_{table}$ ($0.875 > 0.312$) in the experiment class and $r_{count} > r_{table}$ ($0.701 > 0.312$) in the experiment class I, it can be concluded that there is a positive correlation between student learning outcomes and students' critical thinking skills with the model PBL integrated with PowerPoint interactive media.

Keywords: Problem-Based Learning, Critical thinking ability, Lesson study, PowerPoint