

ABSTRACT

Tiara Syahdila, ID 4202121002 (2024). The Influence of Problem Based Learning Models Assisted with Interactive Flipbook on Students' Physics Learning Outcomes in Optical Geometry Material Class XI MAS Plus Al-Ulum Medan.

This research aims to determine the influence of problem based learning models assisted by flipbook media on optical geometry material on the physics learning outcomes of students MAS plus Al-Ulum Medan. The population in this study were all students of class XI MIPA MAS plus Al-Ulum Medan. The sampling method was carried out using saturated or census sampling techniques. The instrument or data collection technique in this study was a learning outcome test in the form of 20 multiple choice questions that had previously been tested for validity. The data analysis techniques used were normality tests, homogeneity tests, and hypothesis tests using the t-test. The results of the study showed that the learning outcomes taught with the problem based learning model assisted by flipbook media were higher than the learning outcomes of students taught with conventional learning models. The results of the statistical test showed that the average pretest value of student learning outcomes taught with a problem based learning model assisted by flipbook media was 37.14 and the average posttest value was 81, while the average pretest value of student learning outcomes taught with a conventional learning model was 37.5 and the average posttest value was 76.11. The results of the hypothesis test obtained a sig. (2-tailed) value of 0.001 (sig. (2-tailed) < 0.05). This proves that H_0 is rejected, which means H_1 is accepted or it can be concluded that there is an effect of implementing a problem based learning model assisted by flipbook media on geometric optics material on student learning outcomes at MAS Plus Al-ulum Medan.

Keywords: Problem based learning model, Flipbook, Learning outcomes