

ABSTRACT

Alieffia Dzilbira, NIM. 4191121030 (2019), The Effect of Guided – Inquiry Learning Model Assisted by PhET on Student’s Learning Outcomes.

This study aimed to determine the learning outcomes of students who are given treatment and determine the effect of PhET media guided inquiry learning model toward the student’s learning outcomes of high school students. This type of research was quasi – experimental research design with pretest-posttest control group design. The population was all students of class XI IPA of SMAN 2 Medan in the 2022/2023 academic year. The samples were taken using purposive sampling technique and obtained class XI IPA 3 as an experimental class and class XI IPA 1 as a control class. The independent variable of guided inquiry learning model assisted by PhET media that was imposed on the experimental class, while the student’s learning outcomes as the dependent variable. The data were taken using multiple choice tests to measure students' learning outcomes. The research hypothesis was tested using the hypothesis test with a significant level of 0.5% aided by Excel and the results of the hypothesis test showed a significant so H_a was accepted. Based on these results it can be concluded that there was an effect of the treatment of guided inquiry model assisted by PhET media on the students' learning outcomes at senior high school.

Keywords: *Guided inquiry, Inquiry learning, PhET Media, Learning Outcomes*

