

**THE EFFECT OF INQUIRY LEARNING MODEL TO THE STUDENT
LEARNING OUTCOMES ON HARMONIC VIBRATION TOPIC IN
CLASS X SMA BUDI MURNI 2 MEDAN A.Y 2017/2018**

Yanti Sopianuli Marbun (ID Num: 4143322028)

ABSTRACT

The purpose of this study was to know the effect of Inquiry Learning Model to the student learning outcomes on harmonic vibration topic of SMA Budi Murni 2 Medan Class X academic year 2017/2018. This research is a quasi experiment. Population in this research are all students in grade X of SMA Budi Murni 2 Medan academic year 2017/2018 which totally 7 classes. The sample of this research conduct two classes and each consist of 35 students, class X MIA-3 as experiment class using inquiry learning model and class X MIA -1 as control class using conventional learning model and define by total sampling. The instrument was used to get data is a test which contains of 12 questions and had been validated by some experts in Physics. Based on the result of research obtained the mean pretest of experiment class is 30.12 and the mean pretest of control class is 29.05. After the learning had finished, the both of classes were given posttest then the mean posttest of experiment class is 72.68 and the mean posttest of control class is 68.63. The difference in mean score indicates the influence of inquiry learning model for student learning outcomes. Besides effect on student learning, inquiry learning model also increases student learning activities that can be observed with an increase in activity from the first meeting to the third meeting with the average : 62.44; 70.67; 77.78. Of normality and homogeneity test showed that the data were normally distributed and homogeneous. It can be concluded that there is an effect of Inquiry Learning model to the student learning outcomes on harmonic vibration topic of SMA Budi Murni 2 Medan A.Y 2017/2018.

Keywords : *Inquiry Learning Models, Learning Outcomes, Learning Activities, Harmonic Vibration*

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