THE EFFECT OF GUIDED DISCOVERY LEARNING METHOD ON STUDENT'S LEARNING OUTCOMES OF LINEAR MOTION IN CLASS X SMA NEGERI 2 PEMATANGSIANTAR ACADEMIC YEAR 2015/2016

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ABSTRACT

The objectives of this research are: (1) To know the student's learning outcomes in physics subject after taught by Guided Discovery Learning Method. (2) To know the student's learning outcomes in physics subject after taught by Conventional Learning Method. (3) To know the effect of Guided Discovery Learning Method on student's learning outcomes of Linear Motion in Class X SMA Negeri 2 Pematangsiantar Academic Year 2015/2016.

The research method was quasi experimental. The populations were all X grade students in semester I that consist of 9 classes SMA Negeri 2 Pematangsiantar. The samples of this research conduct two classes and consist of 80 students, 40 from experiment class and 40 from control class and define by random cluster sampling.

The results that were obtained: pre-test mean value of experiment class was 44.1 and 43.05 for control class and then post-test mean value of the experiment class was 82.12 and 77.1 was the mean value for control class. Standard deviation in pre-test were 14.43 in experiment class and 15.05 in control class and standard deviation in post-test for two classes were 10.82 and 9.83. Normality of the test result from the both samples was normal and homogenous. And for post-test, the criteria is : Ha is accepted if $t_{count} > t_{table}$ and is rejected if t_{count} has another score. From the calculation of t-test one side for $\alpha = 0.05$, obtained $t_{count} = t_{count} = 3.09$ where $t_{table} = 1.994$. So, there was the effect of Guided Discovery Learning Model on Student's Learning Outcomes of Linear Motion in Class X SMA Negeri 2 Pematangsiantar. Based on observation that done by observers with using observation sheet of student activity, conclude that activity of students in experiment class more active than control class.

Key word: Guided Discovery Learning Method, student's learning outcomes, activity.