

**THE EFFECT OF GUIDED DISCOVERY LEARNING MODEL ON  
THE STUDENT'S ACHIEVEMENT IN TEMPERATURE TOPIC  
AT VII GRADE IN SMP N 1 TEBING TINGGI  
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**ABSTRACT**

The objective of this research is to know the effect of using Guided Discovery learning model on the students' achievement especially in temperature topic at VII Grade SMP N 1 Tebing Tinggi.

The research method is quasi experiment. The populations are all the VII grade students in semester II that consist of 9 classes SMP N 1 Tebing Tinggi. The samples of this research conduct two classes and consist of 70 students, 34 students from experiment class and 36 students from control class and define by random cluster sampling.

The results that obtained: pre test mean value of experiment class is 42.06 and control class is 40.3. And then post test mean value of experiment class is 70 and control class is 65.28. Normality of the test result from both samples are normal and homogenous. In the testing of hypothesis for average similar ability, the criteria is:  $H_0$  is accepted if  $-t_{table} < t_{count} < t_{table}$  and  $H_0$  is rejected if  $t_{count}$  has another score, where  $t_{table}$  obtained from list of t distribution. From the calculation of t-test for concept mastery using  $\alpha = 0.05$ , obtained  $t_{count} = 0.507$ , where  $t_{table} = 1.99$ . It means, experiment class and control class have same ability. And for post test, the criteria is :  $H_a$  is accepted if  $t_{count} > t_{table}$  and  $H_a$  is rejected if  $t_{count}$  has another score. From the calculation of t-test for  $\alpha = 0.05$ , obtained  $t_{count} = 1.73$ , where  $t_{table} = 1.67$ . So, there is effect of Guided Discovery Learning Model on the Student's Achievement in Temperature Topic at VII Grade in SMP N 1 Tebing Tinggi Academic Year 2013/2014.

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, student's achievement