

THE EFFECT OF MIND MAP BASED ADVANCED ORGANIZER  
LEARNING MODEL ON STUDENT ACHIEVEMENT  
OF HEAT TOPIC IN CLASS X SMA N 1 TEBING  
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IIS SISWATI SIREGAR(4113322004)

ABSTRACT

The objectives of this research are: (1)To know the results of student learning using model-based Advance organizer Mind Map to the learning outcomes of students in the subject matter in the heat .(2)To determine the effect of learning models Advance organizer based on Mind Map to the learning outcomes of students in the subject matter in the heat .(3)To determine the activity of students during the learning by using model-based Advance Organizer Mind Map on the subject matter in the heat .The type of research was quasi experiment with the population all of student in class X of the semester II in SMA N Tebing Tinggi which consists of 7 classes. Sample of this research was obtained by technique random sampling.

The sample is X IPA 3 as the experiment class and X IPA 6 as the control class. Experiment class taught by Advance Organizer learning Model based on Mind Mapping and control class taught by conventional learning. The research instrument has 20 question in multiple choice forms with 5 options, the instrment tested validated. In this research obtained the mean of pre- test in experiment class 30.5 and in control class is 26.5. After that do the treatment in in experiment class taught by Advance Organizer based on Mind Map and in control class taught by conventional learning, and then done the post-test.The mean of post test in eperiment class is 70.16 and control class was 64.66. In hypothesis testing obtained  $t_{count} > t_{tabel}$  that was  $2.19 > 1.67$  at significant level  $\alpha = 0.05$  and  $n = 30$ . So can be calculaded that the student's learning outcomes in experiment class differ with control class. Can be calculaded that there is effect of Advance Organizer learning model based on mind map on student achievement in the heat subject matter in class X SMA N 1 Tebing Tinggi academic year 2014/ 2015.