

**THE EFFECT OF COOPERATIVE LEARNING MODEL OF TEAM GAMES
TOURNAMENTS (TGT) TYPE ON OUTCOMES ON HEAT AND
TEMPERATURE TOPIC IN CLASS X SEMESTER II
SMA NEGERI 1 SIDIKALANG A. Y. 2015/2016**

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ABSTRACT

The research aims to determine the effect of cooperative learning model type Teams Games Tournaments (TGT) to the learning outcomes of students and to determine learning outcomes of students during learning process on topic heat and temperature Semester II class X SMA Negeri 1 Sidikalang. This type of research was a quasi-experimental design with two group pre-test and post-test. The population of this research were all students of class X Semester II SMA Negeri 1 Sidikalang consist of 12 class, the amount of students was 372 students. The sample was done by cluster random sampling by taking two classes of 12 class. The class that chosen was X-6 as an experimental class , that consist of 31 students and X-4 as a control class that consist of 31 students. Based on the result of this research, the average of pretest on experimental class was 31.12 and control class was 30.32. The both of class was given with different treatment, experimental class with TGT cooperative learning model and control class with conventional learning model. After learning process was finished the class gave the post-test with an average was 76.61 on experimental class and control class was 63.67. The t-test results was $t_{count} = 5.71$ and $t_{table} = 1.67$ then $t_{count} > t_{table}$ and H_a was accepted. It can be concluded that there was a difference due to the effect of cooperative learning model of teams games tournaments (TGT) type on outcomes of heat and temperature topic in class x semester II SMA Negeri 1 Sidikalang A.Y.2015/2016.