

**THE EFFECT OF COOPERATIVE LEARNING MODEL TYPE
STUDENT TEAMS ACHIEVEMENT DIVISION (STAD)
AIDED BY MACROMEDIA FLASH MEDIA TOWARD
STUDENTS' LEARNING OUTCOMES IN
ELECTRODYNAMICS TOPIC AT 1ST
GRADE STUDENTS OF
SMA 5 BINJAI**

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ABSTRACT

The purpose of this research was to see the effect of Cooperative Learning Model Type Student Teams Achievement Division (STAD) Aided by Macromedia Flash Media toward Students' Learning Outcomes in Electrodynamics Topic at 1st grade students of SMA 5 Binjai.

The research method was quasi experimental. The populations were all 1st grade students semester II that consist of 8 classes SMA 5 Binjai. The samples of this research conduct two classes and consist of 50 students, 25 from experiment class and 25 from control class and define by random cluster sampling.

The results that were obtained: post-test mean value of the experiment class was 78.72 and 64.28 was the mean value for control class. Standard deviation for two classes was 12.65 and 12.67. Normality of the test result from the both samples was normal and homogenous In the testing of hypothesis for posttest, the criteria is: H_0 is accepted if $t_{\text{count}} < t_{\text{table}}$ and H_0 is rejected if t_{count} has another score, where t_{table} obtained from list of distribution t. From the calculation of test t for concept mastery using $\alpha = 0.05$, obtained $t_{\text{count}} = 4.03$, where $t_{\text{table}} = 1.673$. So that, there was the significant effect of Cooperative Learning Model Type Student Teams Achievement Division (STAD) Aided by Macromedia Flash Media toward Students' Learning Outcomes in Electrodynamics Topic at 1st grade students of SMA 5 Binjai. Based on observation that done by observers with using observation sheet of affective and psychomotor, conclude that affective and psychomotor students in experiment class higher than control class.