

ABSTRACT

The research aims to determine effect of applying cooperative learning model using sparkol videoscribe toward student learning outcomes on subject matter work and energy at X SMA Negeri 2 Binjai Academic Year 2017/2018.

This research method is quasi experiment with design of two group Pretest and Posttest. The research population of all class X MIA students, consisting of six classes. The research sample consisted of two classes taken with class random sampling technique, that is class X MIA 2 as experiment and class X MIA 6 as control class, each class were 37 students. And the research was obtained using objective test instrument of 15 questions.

The result of data analysis obtained the average value of pretest of experiment class and control class is 35.62 and 35.59. Then testing normality is normal distributed and homogeneity homogeneous. Then the hypothesis is tested and results are obtained $t_{\text{count}} < t_{\text{table}}$, so can be said that the initial ability of students is the same. After that, different treatments were given to the experimental class using sparkol videoscribe and control class with conventional learning. After the learning is complete, the posttest is average in experimental class results are 75.14 with standard deviation of 11.62 and the average in control class is 57.84 with standard deviation of 10.49. The results of hypothesis using t test $t_{\text{count}} = 7.1$ while $t_{\text{table}} = 1.67$ because $t_{\text{count}} > t_{\text{table}}$ ($7.1 > 1.67$) then H_0 is rejected. Thus can be concluded there are significant effect differences from the application of cooperative learning models toward student learning outcomes.

Keywords: Cooperative, Sparkol Videoscribe, Learning Outcomes