

**THE EFFECT OF COOPERATIVE LEARNING MODEL OF JIGSAW TYPE USING
ANIMATION ON STUDENT'S CONCEPTUAL KNOWLEDGE IN X CLASS
MAN 3 MEDAN A.Y.2014/2015**

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ABSTRACT

The objectives of this research is to find out the effect of Cooperative Learning Model Type of Jigsaw using animation media on student's learning outcomes in subject temperature and heat in class X MAN 3 Medan A.Y. 2014/2015.

The research method was quasi experimental. The popolations were all X grade students in even semester that consists of 5 classes MAN 3 Medan. Two class is selected random cluster sampling as sample. One class as experimental class was treatment by Cooperative Learning Model of Jigsaw type using animation and another class as control class was treatment by conventional learning. The samples of this research consists of 69 students, 37 from experiment class and 32 from control class. The results that were obtained: pre-test mean value of experiment class was 7,59 and mean value of control class was 7,34 and then post-test mean value of the experiment class was 15,84 and the mean value for control class was 14,81. Standard deviation in pre-test was 2,17 in experiment class and 1,86 in control class and standard deviation in post-test for two classes were 1,76 and 1,65. Normality of the test result from the both samples was normal and homogeneous. In the testing of hypothesis for pre-test from the calculation of t-test for $\alpha = 0,05$, obtained $t_{\text{count}} = 1,14$ and $t_{\text{table}} = 1,99$. It means, experiment class and control class have same ability. And for post-test, the criteria is: H_a is accepted if $t_{\text{count}} > t_{\text{table}}$ and is rejected if t_{count} has another score. From the calculation for $\alpha = 0,05$, obtained $t_{\text{count}} = 2,51$ where $t_{\text{table}} 1,99$.

So, there was effect of Cooperative Learning Model of Jigsaw Type Using Animation on Student's Learning Outcomes in Temperature and Heat Subject Matter Class X MAN 3 Medan A.Y. 2014/2015.