

**THE EFFECT OF COOPERATIVE LEARNING MODEL OF
GROUP INVESTIGATION (GI) TYPE USING ANIMATION
IN INCREASING PHYSICS LEARNING OUTCOMES
OF STUDENTS MAN 3 MEDAN A.Y.2014/2015**

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ABSTRACT

The purpose of this research is to know the effect of Cooperative Learning Model through GI type using animation media in increasing the physics learning outcome of student MAN 3 Medan in the material fluid dynamic class XI Academic Year 2014/2015, to know the physics learning outcomes of student which was taught using conventional learning in the material Fluid Dynamic and to know the significant effect in physics learning outcomes of the students that was taught using Cooperative learning model through GI type using animation media in Dynamic Fluid material.

The type of research is quasi experimental research. The population were all the student of class XI MAN 3 Medan Academic Year 2014/2015, consist of 5 class. Two class is selected random cluster sampling as sample. One class as experimental class was treatment by Cooperative Learning Model through GI type using animation media and another class as control class was treatment by conventional learning. Instrument that used as learning result test, namely objective test as the amount is twenty items that contains of five options and already valid.

The result of quantitative analysis of pretest mean in experimental class is 40.33 and in control class is 41.70 and the posttest mean in experimental class is higher than in control clas. Data of result of research is taken from normally distribution and homogeneous. To test the hypothesis, used the t test with the significant level $\alpha = 0.05$ and it was obtained the t_{count} is 5.70 and t_{table} is 2.00 so that $t_{\text{count}} > t_{\text{table}}$ that means H_a is accepted and H_o is rejected thus the are significant difference between the physics learning outcomes of student in experimental class and in the control class. Because of the difference it means there are significant effect of Cooperative Learning Model through GI type using animation media in increasing the physics learning outcome of student MAN 3 Medan class XI Academic Year 2014/2015 in higher learning outcomes than conventional learning.