The Effect of Cooperative Learning Model Group Investigation (GI) Type to Improve The Science Process Skills in Static Fluid Subject Grade X Even Semester SMA Negeri 1 Dumai Academic Year 2015/2016

Dian Purnamasari (ID. 4123121011)

ABSTRACT

The research aims to know the effect of cooperative learning model type group investigation on student's science process skill at static fluid subject. This research was carried out in grade X SMA Negeri 1 Dumai on 2nd semester Academic Year 2015/2016. This research used quasi experiment type with pretest-posttest control group design. Population consisting of two classes. Sample was taken using technique of cluster random sampling. The number of research sample is 28 students for experiment class and 29 students for control class. The data of Science Process Skill is taken by using instrument test in form of essay question from ten indicators. During the treatment process experiment class was learned by using cooperative learning model type group investigation, while control class was learned by conventional learning model. From the result of data calculation there was differences of mean between two classes, the value obtained of postest are t_{count} is about 1.78 and t_{table} 1.67. Therefore can be concluded that the instrument of postest just valid for 12 students from 57 students if we see in the table t distribution and $t_{count} > t_{table}$ it means H_a accepted by using t-test one tail ten indicators were tested. The result shows science process skill in cooperative learning model type group investigation significantly higher than control class. The students that give treatment with cooperative learning model type GI in static fluid have increase in learning outcomes, social skill between each group or individu because formed in heterogeneous group, the attitude among friend and science process skill because the students in group together to investigate problems about static fluid topic. This learning model require the students to be able to plan the topics to be discussed and train the student's self-confident to explain the results of group discussions in front of the class. Result of student activity also showed student in GI class has good dicipline, cooperate, honesty, and responsible. It can be concluded that there is the effect of cooperative learning model type group investigation on student's science process skill at static fluid subject.

Keyword: Cooperative Learning Model Type GI, Conventional Learning, Science Process Skill, Static Fluid