

**THE EFFECT OF CONCEPT MAP IN STAD COOPERATIVE  
LEARNING ON STUDENTS LEARNING ACHIEVEMENT  
AND STUDENTS ACTIVITY ANIMAL AND  
PLANT CELLS TOPIC IN CLASS XI  
SMA NEGERI 18 MEDAN  
ACADEMIC YEAR  
20013/2014**

**ASRI IVO A HUTAURUK (409342016)**

**ABSTRACT**

The objective of this research is to find out and to know the effect of concept map in STAD cooperative learning on student's learning activity and achievement on topic animal and plant cells. This study is classified as quasi experimental with two groups of pretest- posttest design. This study was carried in Grade XI SMAN 18 Medan. Samples were obtained by random sampling and obtained XI-1 as experimental class and X-2 as control class. The study variable consist of dependent variable, student's learning activity and student's learning achievement while the independent variable was using concept map in STAD cooperative learning in experimental class and without concept map in control class. Test instrument was cognitive test of multiple choice whereas non test using observation sheet. The effect of the treatment was analyzed by using t-test. The research results show that involvement level of student's learning activity on experimental class was higher than control (73.7%>52.9%) in where  $t_{\text{count}} > t_{\text{table}}$  ( $2.79 > 1.669$ ) with  $\alpha = 0.05$  and  $df = 32$ . Average score of student's achievement on experimental class was 85.51 and control class was 72.84. The t-test analysis shows that  $t_{\text{count}} > t_{\text{table}}$  ( $3.382 > 1.673$ ) with  $\alpha = 0.05$ , means there was a significant difference in student's mean achievement score on experimental and control class. Therefore concept map in STAD cooperative learning has positive effect on student's learning achievement in animal and plant cells topic at SMAN 18 Medan A.Y.2013/2014.

**Keywords :** *Concept Map, STAD cooperative Learning, Animal and Plant Cells, Learning activity, Student achievement*



THE  
*Character Building*  
UNIVERSITY