

**EFFECT OF SAVI APPROACH IN JIGSAW COOPERATIVE LEARNING
MODEL ON STUDENTS' ACTIVITY AND LEARNING OUTCOME
IN BIODIVERSITY TOPIC IN X GRADE OF SMA N 3
MEDAN ACADEMIC YEAR 2015/2016**

Atika Julia Handayani Nasution

4113141007

ABSTRACT

The aims of this study were to know the effect of SAVI in Jigsaw cooperative learning model on students' (1) activity and (2) learning outcome in biology at biodiversity topic. This research was conducted in SMA Negeri 3 Medan, academic year of 2015/2016. Type of research was quasi-experimental design. Population of research was all X Grade students. There were three classes as the samples which chosen by cluster random sampling technique. Experimental class I used SAVI approach in Jigsaw model, experimental class II used Jigsaw model only, and control class used Direct Instruction model. Students' activity was measured by using observation sheet as non-test instrument. The data were analyzed with ANAVA by using SPSS v.18 software. The research result indicates that there is significant effect of SAVI approach in Jigsaw cooperative learning model on students' activity ($F = 110.70$; $P = 0.00$). Students were more active in experimental class I with mean value is 40.04 rather than in experimental class II and in control class with mean value are 35.10 and 4.36. Students' learning outcome was measured by using multiple choice-tests. The data were analyzed with ANCOVA by using SPSS v.18 software. The research result also indicates that there is significant effect of SAVI approach in Jigsaw cooperative learning model on students' learning outcome ($F = 5.90$; $P = 0.04$) with the highest mean value is 71.52.

Keywords: SAVI approach, Jigsaw model, Direct Instruction model, students' activity, learning outcome,