

**COMPARISON OF STUDENT'S HIGHER ORDER THINKING IN  
INSECT TOPIC BETWEEN STUDENT THAT LEARNING BY  
GUIDED DISCOVERY AND GROUP INVESTIGATION  
MODELS IN GRADE X SMA NEGERI 2 BALIGE  
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**ABSTRACT**

This research aims to investigate the comparison of student higher order thinking through implementing guided discovery and group investigation models in biology specifically on insect topic in grade X SMA Negeri 2 Balige in academic year 2012/2013. The population of this research was all regular students class X in SMA Negeri 2 Balige totaling 128 students. The research sample was taken by using purposive sampling by taking two classes that have nearly same mean,(68.64 and 68.59). It was obtained the sample 32 students for guided discovery and 32 students for group investigation class. The instrument of research was student's higher order thinking cognitive test based on Bloom taxonomy ( $C_4, C_5, C_6$ ), arranged in multiple choice form with 30 questions which had been validated by expert. The research result showed that student higher order thinking in guided discovery class was  $77.18 \pm 5.31$  and group investigation was  $69.68 \pm 6.52$ . The result of t test showed there was very significance difference of student higher order thinking between guided discovery and group investigation ( $t_{calculate} = 5.05$ ;  $p < 0.01$ ), with comparison 1.1 : 1.

Keyword : *Student higher order thinking, guided discovery model, group investigation model*