

**THE EFFECTIVENESS OF GUIDED INQUIRY WITH MACROMEDIA
FLASH TO INCREASE STUDENT'S ACHIEVEMENT IN THE TEACHING
OF SOLUBILITY AND SOLUBILITY PRODUCT**

Shofiyah (Reg. Number 4103332025)

ABSTRACT

The objectives of this research are, the first is to know the student's achievement that be taught by guided inquiry with macromedia flash is significant higher than student's achievement that be taught by direct instruction with macromedia flash in the teaching of solubility and solubility product and the second is to know the cognitive aspect that most improve through the experiment class. This research was conducted in SMA Negeri 3 Medan on the second semester. The sample that used in this research is students in grade XI in two classes that are control and experiment class. The research instrument that was used in this research consists of test instrument (evaluation test). The instrument that used in this research had been tested based on validity and reliability test. Based on validity, from 30 questions there are 20 questions are valid and r_{count} for reliability test is 0.935. It means that the questions are reliable with high categories. The data of this research has been analyzed by using normality and homogeneity test which is shown that data gain are normal distributed and homogeny. It is requirement to do hypothesis test. Based on the hypothesis test using Right Side t-Test the result of calculation shows that $t_{\text{count}} > t_{\text{table}}$ ($10.15 > 1.69$) it means that H_a is accepted. So, it can be concluded that the student's achievement that be taught by guided inquiry with macromedia flash is significant higher than student's achievement that be taught by direct instruction with macromedia flash in the teaching of solubility and solubility product. Based on cognitive aspect analysis, the average of cognitive aspect gain in experiment class are C1 0.52 (medium category), C2 0.82 (high category), C3 0.75 (high category), and C4 0.71 (high category), so it can be concluded that the most influence of cognitive aspect through experiment class are C2 (comprehension) because it has highest value of gain average.