

## ABSTRACT

### **Nurul Wahidah Nasution IDN 8156141012, Effect Of Thinking Skills Enhancement Learning Strategy Based On Collaborative Using eXe Learning And Creative Thinking Skills Towards Students Achievement In Acid And Base Topic**

This research has several purpose they are (1) The difference of students achievement that is taught by Thinking Skills Enhancement Learning Strategy based on collaborative using eXe Learning with Direct Instruction, (2) The difference of students achievement between High Creative thinking kills with low creative thinking skill, (3) The interaction of both model with creative thinking skill with Learning Strategy, and (4) The relation between students creative thinking skills with students achievement. The samples of this research were students grade XI SMA Negeri 16 Medan for two classes, each class had 36 students. In experimental class that implemented the Thinking Skill Enhancement Learning Strategy based on collaborative using eXe learning while in control classs by direct instructional. This research instrument was achievement test 20 questions in form of multiple choice that had been valid and reliable. Based on the result of data requirement test, the students' achievement in experiment and control class were normal distributed and homogeny. From the research result was got (1) The average score of normalized gain in experiment class is higher than control class those are 0.732 and 0.542. It meant there was the difference of students achievement that was taught by Thinking Skills Enhancement Learning Strategy based on collaborative using eXe Learning with Direct Instruction. (2) The students who had High creative thinking skills got N-Gain score has 0.73 is higher than students who had low creative thinking skills that was 0.54. So, there is the difference of students achievement between High Creative thinking kills with low creative thinking skill that is taught by Thinking Skills Enhancement Learning Strategy based on collaborative using eXe Learning and Direct Instruction towards students achievement. (3) There was the interaction of both model with creative thinking skills towards students achievement with sig 0.00. (4) There was the relation between students creative thinking skills with students achievement in experiment and control class with the contribution towards the students' achievement as 54.8 %

Key Words : *Thinking Skills Enhancement Learning Strategy, Collaborative Learning, eXe Learning, Cretaiive Thinking Skills, Student Achievement*