

**THE IMPLEMENTATION OF POGIL STRATEGY BASED ON LESSON
STUDY WITH INTERACTIVE MEDIA IN INCREASING
STUDENT'S ACHIEVEMENT AND INTEREST ON
TEACHING OF STOICHIOMETRY**

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ABSTRACT

This research have aim to know the affect of the POGIL Strategy based on Lesson Study with Interactive Media toward student's achievement and interest, and also the correlation of student's achievement and interest. This research conducted at 3 Senior High Schools in Medan, they are SMAN 2, SMAN 3 and SMAN 15. In this study, is chosen 2 class as the sample, the first class as the control class that taught by Direct Instruction with Interactive Media and the second class as the experiment class that taught by POGIL Strategy based on Lesson Study with Interactive Media with the presence of 2 observers who observe the activity of students. The research instruments are achievement test which are pretest and posttest by using multiple choice questions and non test in list interest form. Both of instruments have been validated. The research data is analyzed by SPSS 22 for Windows. The result show that 1) The student's achievement taught by POGIL Strategy based on Lesson Study with Interactive Media give higher significance difference than Direct Instruction with Interactive Media. It can be seen from the average of gain and also proved with t-test in each of 3 senior high schools target, the normalized gain at SMAN 2 Medan got 63 % in control class and 71 % in experiment class. At SMAN 3 Medan got 68 % in control class and 79 % in experiment class. And at SMAN 15, got in control class is 67 % and 80 % for experiment class, (2) The student's interest taught by POGIL Strategy based on Lesson Study with Interactive Media give higher significance difference than Direct Instruction with Interactive Media in 3 SHS target. It can be seen from the average of interest using the observation sheet and questionnaire at SMAN 2 Medan (Experiment 74.39% > Control Class 61.05%), at SMAN 3 Medan (Experiment 80.91% > Control 70.03%), at SMAN 15 Medan (Experiment 76.18 % > Control 68.95%) (3) There is strong correlation between two variables that are student's achievement and student's interest at 3 SHS targets. It can be seen from the value of Pearson correlation at 3 senior high schools (SMAN 2 = 0.720 ; SMAN 3 = 0.683 ' SMAN 15 = 0.572) The student's interest has positive correlation to the increasing of student's achievement or can be said that student's interest influence or support the increasing of student's achievement.

Keywords: POGIL Strategy, Direct Instruction Lesson Study, Interactive Media, Student's Achievement, Student's Interest.