

## ABSTRACT

**IRIANA PUTRI CHAIDIR.** The Influence of Application of Inquiry Learning to Students Achievement of Chemistry Learning and Science Process Skill in Redox Reaction Material. **Thesis.** Jakarta: Chemistry Education Study Program, Faculty of Mathematics and Natural Sciences, Jakarta State University, August 2017.

This study aims to obtain the information about the effect of the application of inquiry learning to students' achievement of chemistry learning and students science process skill in redox reaction material. This research was conducted by using quasi-experimental research design at SMAN 53 Jakarta in the even semester of academic year 2016/2017. The instrument used in this research is the posttest of chemistry learning achievement in the form of multiple choice questions and the scores of students' science process skill assessment. The results showed that there was a difference of chemistry learning achievement in the experimental class and control class ( $t_{\text{count}} = 6,017$ ;  $t_{\text{table}} = 1,668$ ; therefore  $t_{\text{count}} > t_{\text{table}}$ ). Along with the result, students' science process skill assessment results which were divided in several aspects showed that the experimental class students were included in the 'very good' and 'good' category, while the control class students were included in the 'good' and 'sufficient' category. Based on the posttest and the students' science process skill assessment score, it can be concluded that the application of inquiry learning increases students' achievement of chemistry learning and students science process skills on redox reaction material.

**Keywords:** Inquiry, Learning Achievement, Science Process Skill, Redox Reaction