ABSTRACT

Fania El Ridhasya, (2017) : **The Effect of Using Problem Based Learning Model with Numbered Heads Together toward Student Learning Achievement on Basic Law of Chemistry Material.**

This research was a Quasy experiment with pretest and posttest design. This research was instigated by the law of student learning achievement on Basic Law of Chemistry material. This research aimed at knowing the effect of using Problem Based Learning model with Numbered Heads Together toward student learning achievement on Basic Law of Chemistry material. The subjects of this research were the tenth grade students of Natural Science in the Academic Year of 2016/2017. Simple random sampling was used in this research, and 2 sample classes were selected that were the tenth grade students of Natural Science 2 (experimental group) and 3 (control group). Observation, homogeneity test as the preliminary data test, pretest and posttest as the final data test, and documentation were used to collect the data. Kp formula was used to know the effect of using the model toward student achievement. The different effect was analyzed by using Paired Sample t-test. Preliminary and final data analysis result revealed that $t_{observed}$ was 2.06 and t_{table} was 2.00 at 5% significant level. $t_{observed}$ was higher than t_{table} that H_o was rejected and H_a was accepted meaning that there was an effect of using Problem Based Learning model with Numbered Heads Together toward student learning achievement on Basic Law of Chemistry material at the tenth grade of State Senior High School 2 Pekanbaru, and the effect was 7.04%.

Keywords : *Problem Based Learning, Numbered Heads Together, Learning Achievement, Basic Law of Chemistry*