

## **ABSTRACT**

The Influence of the PACE Cooperative Learning Model with a Scientific Approach to the Mathematics Learning Outcomes of Class X Students of SMA Islam Sabilul Huda. Rofiqi.

Keywords: Mathematics Learning Outcomes, PACE type Cooperative with a scientific approach

This study aims to determine the effect of the PACE cooperative learning model with a scientific approach to the learning outcomes of class X students of SMA Islam Sabilul Huda. This study uses a scientific approach and quantitative research methods. The population taken was all students of class X SMA Islam Sabilul Huda. The sample in this study was taken using the Simple Random Sampling technique as many as 10 students in class X boys. The instrument used is a test instrument. Data analysis was performed using inferential statistical analysis by calculating the value of the t-test (paired sample test) and also using the N-gain test.

The results of this study indicate that there is an influence on students' mathematics learning outcomes from before and after being given the PACE type cooperative learning model with a scientific approach seen from the average pre-test score of 48.8000 and the average post-test score of 79.4000. The results of the t-test analysis obtained  $0.001 < 0.005$  on the basis of a decision on a significance value  $< 0.005$ , then  $H_0$  was rejected and  $H_1$  was accepted. Therefore there is an influence of the PACE type cooperative learning model with a scientific approach to the results of learning mathematics in class X SMA Islam Sabilul Huda in the 2022/2023 academic year.

