

## ABSTRACT

Ulfa Hanifa Azzahra. 2023. **THE EFFECT OF WEBSITE BASED LEARNING ON SCIENTIFIC LITERACY SKILL OF STUDENTS IN SOUND WAVES MATERIAL**

This research is motivated by the low scientific literacy skill of students about sound waves in class XI IPA MA Idrisiyyah. Efforts made by researchers to overcome these problems are by applying a website based learning. The purpose of this study was to determine the effect of website based learning on students' scientific literacy skills on sound waves material in class XI IPA MA Idrisiyyah in the 2022/2023 academic year. The research method used is a quasi-experimental research design with a pretest-*posttest* control group design. The population of this study was all 2 classes of science class XI MA Idrisiyyah with a total of 60 students. The research sample was taken using a purposive sampling technique with homogen sample type. To measure the scientific literacy skills of students, a pre-treatment test (*pretest*) and after being given treatment (*posttest*) was conducted in the form of an essay with a total of 5 questions on the sound waves, includes 8 indicators of scientific literacy skills. The data analysis technique used is the prerequisite test (normality test, homogeneity test), and hypothesis testing (t-test). The results of hypothesis testing using the t-test at the significance level ( $\alpha= 0.05$ ) show that after the implementation of website based learning, it is obtained that is  $t_{count} > t_{table}$   $3,059 > 2,002$  so that is  $H_a$  accepted and  $H_0$  is rejected. This means that at the 95% confidence level, it can be concluded that there is an influence of website based learning on scientific literacy skills in sound waves material in class XI IPA MA Idrisiyyah.

Keywords: Scientific Literacy Skill, Website-Based Learning, Sound Waves