

ABSTRACT

Dewi Aisyah. 2023. ***THE EFFECT OF PADLET-ASSISTED MODEL SELF ORGANIZED LEARNING ENVIRONMENT (SOLE) ON PROBLEM SOLVING ABILITY OF STUDENTS IN SOUND WAVE MATERIAL.***

The background of this research is the low Problem Solving Ability of Students in Sound Wave Material. In connection with this, researchers are trying to overcome this problem with the Padlet-assisted SOLE (Self Organized Learning Environment) learning model to help students improve their problem solving abilities. This study aims to determine the effect of the Padlet-assisted SOLE learning model on Student Problem Solving Ability in Sound Waves material. This research began in January 2023 until June 2023 at SMAN 10 Tasikmalaya. The research method used was quasi-experimental with a Nonequivalent control group design. The research population was class XI MIPA which consisted of 6 classes with a total of 184 students. The research sample was taken by purposive sampling technique and selected class XI MIPA 3 as the experimental class and class XI MIPA 4 as the control class. To measure problem solving skills using data collection techniques in the form of observation and tests. The instruments used in the form of tests are pretests in the form of essay questions and posttests after being treated to determine the level of achievement of problem solving indicators, and also use non-test sheets to determine the implementation of the syntax of the learning model. Data processing techniques used are expert validation tests, instrument trials, prerequisite tests, hypothesis tests, and N-gain tests. Based on the N-Gain calculation, the increase in problem solving skills in the experimental class was 0.843 with the category "High," while in the control class, it was 0.731 with the category also "High". H_a is accepted and H_0 is rejected

Keywords: padlet, problem solving ability, sound wave, the effect of sole learning model