

ABSTRACT

WAFIQ AZIZAH RAMDANI MAARIF. 2025. **THE EFFECT OF THE PROBLEM BASED LEARNING MODEL ON STUDENTS COGNITIVE LEARNING OUTCOMES AND VERBAL COMMUNICATION SKILLS IN BIOLOGY LEARNING** (Experimental Study in Class X of SMA Negeri 3 Ciamis in Academic Year 2023/2024). Biology Education Department, Faculty of Teacher Training and Education, Siliwangi University, Tasikmalaya.

This study aims to determine the effect of the problem-based learning model on the cognitive learning outcomes and verbal communication skills of class X students at SMA Negeri 3 Ciamis in biology learning. The study employs a quasi-experiment approach, utilizing a matched-only posttest-only control group design. The population in this study is all class X at SMA Negeri 3 Ciamis for the academic year 2023/2024, with a total of 376 students, consisting of 11 classes. Samples were taken using the purposive sampling technique, namely class X-1 as the experimental class and X-2 as the control class. The instruments used are a cognitive learning outcome test with a total of 30 multiple-choice questions and a verbal communication skills test with 8 description questions. The results of the hypothesis test using the Independent Sample t Test, the significance value of cognitive learning outcomes is 0.001 so that the conclusion of the hypothesis obtained is that H_0 is rejected and H_a is accepted because $0.001 < 0.05$. Then the significance value of variable communication ability is 0.000 so that the conclusion of the hypothesis obtained is that H_0 is rejected and H_a is accepted because $0.000 < 0.05$. The study's results show that the problem-based learning model has an effect on the cognitive learning outcomes and verbal communication skills of biology students in class X at SMA Negeri 3 Ciamis during the 2023–2024 school year.

Keywords: *Problem Based Learning, Cognitive Learning Outcomes, Verbal Communication Skills*