

ABSTRAC

RATIH PURWANTI. 2026. ***The Effect of the Outdoor Learning Process (OLP) on Students' Problem-Solving Skills and Understanding of Environmental Pollution Material*** (An Experimental Study in Grade X at MA BPI Baturampe, Academic Year 2025/2026) Department of Biology Education, Faculty of Teacher Training and Education, Universitas Siliwangi, Tasikmalaya

Biology learning that is still focused on classroom-based activities and does not optimally utilize the surrounding environment as a learning resource has resulted in low levels of students' problem-solving skills and conceptual understanding. The Outdoor Learning Process (OLP) method is an alternative learning approach that emphasizes direct learning experiences through the use of the natural environment. This study aimed to examine the effect of the OLP method on students' problem-solving skills and understanding of environmental pollution material in Grade X at MA BPI Baturampe Tasikmalaya. This study employed a quasi-experimental method with a pretest–posttest control group design. The research sample consisted of two classes selected using purposive sampling, namely an experimental class that implemented the OLP method and a control class that applied the Problem-Based Learning (PBL) model, with 29 students in each class. The research instruments were validated essay tests consisting of five items to measure students' problem-solving skills and understanding. Data were analyzed using ANCOVA with the assistance of SPSS version 24. The results showed that the implementation of the OLP method had a significant effect on students' problem-solving skills and understanding ($p < 0.05$). Therefore, the Outdoor Learning Process (OLP) method is effective as an alternative approach to biology learning, particularly for environmental pollution material.

Keywords: *Outdoor Learning Process, Problem-Solving Skills, Students' Understanding, Environmental Pollution*