

ABSTRACT

FAISAL FAZRIN 2025 ***THE EFFECT OF THE SDGs 13-BASED DISCOVERY LEARNING MODEL ON ENVIRONMENTAL LITERACY AND STUDENTS' ENVIRONMENTAL AWARENESS IN THE CLIMATE CHANGE (Experimental Study in Grade X at SMA Negeri 9 Tasikmalaya)***

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Climate change is a global issue that requires contextual learning to improve students' environmental literacy and environmental caring attitudes. This study aims to determine the effect of the SDGs 13–based discovery learning model on students' environmental literacy and environmental caring attitudes in climate change material for Grade X students at SMA Negeri 9 Tasikmalaya in the 2025/2026 academic year. The research employed a quasi-experimental method. The study was conducted at SMA Negeri 9 Tasikmalaya with a population consisting of all Grade X students from twelve classes, totaling 366 students. The sample was selected using purposive sampling, resulting in class X-8 as the experimental group and class X-7 as the control group. Data were collected using an environmental literacy test consisting of 21 multiple-choice items and an environmental caring attitude test consisting of 13 essay items, all of which had passed validity and reliability testing. Prior to hypothesis testing, the data were analyzed using prerequisite tests including normality and homogeneity tests, which indicated that the data were normally distributed and homogeneous. Hypothesis testing using ANCOVA showed significance values of 0.003 for environmental literacy and 0.001 for environmental caring attitudes, both of which were lower than 0.05, indicating that H_0 was rejected. Therefore, the results indicate that the SDGs 13–based discovery learning model has a significant effect on students' environmental literacy and environmental caring attitudes in climate change material for Grade X students at SMA Negeri 9 Tasikmalaya.

Keywords: Discovery Learning, SDGs 13, Environmental Literacy, Environmental Awareness