

# DEVELOPMENT OF ESD INTEGRATED PBL LEARNING TOOLS ON BIODIVERSITY MATERIALS TO IMPROVE SCIENTIFIC LITERACY AND STUDENTS' CURSIBILITY IN PHASE E OF HIGH SCHOOL

by Anisa Shabrina, Suhartini

ABSTRACT

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### DEVELOPMENT OF ESD INTEGRATED PBL LEARNING TOOLS ON BIODIVERSITY MATERIALS TO IMPROVE SCIENTIFIC LITERACY AND STUDENTS' CURSIBILITY IN PHASE E OF HIGH SCHOOL

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This research aims to develop ESD-integrated PBL teaching tools as a reference that teachers can use in implementing learning with an ESD approach and to determine the effectiveness of teaching tools in improving students' scientific literacy skills and curious character.

This research is development research with the ADDIE development model where this model consists of five stages, namely: analysis, design, development, implementation and evaluation. The teaching tools developed consist of teaching modules, worksheet and assessment instruments. This research instrument consists of a product validation questionnaire by expert lecturers, teachers and students, a curiosity questionnaire and scientific literacy questions.

The results of this research showed that the teaching tools developed were suitable and could be used in learning based on the assessments of expert lecturers and teachers. The worksheet developed received a good response from students. Based on the n gain score test, the results showed an increase in scientific literacy skills in the medium category and an increase in curious character in the low category. Based on the results of the MANOVA test, it is known that there is a simultaneous influence of the teaching tools being tested on the two research variables based on sig results of 0.003 ( $p < 0.05$ ). Based on the results of further tests, it is known that there is a significant influence on scientific literacy with a sig value of 0.001 ( $p < 0.05$ ) but there is no significant influence on the character of curiosity with a sig value of 0.878 ( $p > 0.05$ ).

Kata Kunci: *Learning Tools, PBL, ESD, Scientific Literacy, Curiosity*