

ABSTRACT

Silvia Gressiela Br Sembiring, IDN 4212431002 (2025). Development of Interactive E-LKPD Based on The Reading to Learn (R2L) Method to Improve Students' HOTS Science Literacy Ability on Reaction Rates

This study was motivated because the use of R2L method in learning has not been maximized which can help students in the learning process and increase students' HOTS science Literacy also there is no use of E-LKPD based on R2L method. HOTS Science Literacy is one of the life abilities that students must now possess. This research aims to: (1) to find out data and information about students' needs of Interactive e-LKPD based on the Reading to Learn (R2L) method to improve Students' HOTS Science Literacy on Reaction Rat; (2) to find out data and information on the level of interactive feasibility of E-LKPD developed based on the Reading to Learn (R2L) method for students' HOTS literacy skill; (3) to determine the influence of the interactive implementation of E-LKPD based on the Reading to Learn (R2L) method on students' HOTS literacy skills on the reaction rate topic; (4) to determine the level of effectiveness of interactive E-LKPD based on the Reading to Learn (R2L) method on students' HOTS scientific literacy skills in improving students' science literacy skills on the reaction rate material. This investigation employs a 4D model methodology. Based on questionnaire results 88.2% students' needs to E-LKPD based on R2L Method. Based on four material expert validators, it was determined that 4.32 of the material had a very valid or feasible, while 87.40% of student responses were rated as "very interesting." There is an influence in the use of E-LKPD with R2L method with a significance result of $0.000 < 0.05$. The level of effectiveness of E-LKPD is classified at the medium level with the N-Gain results obtained of 0.48. From these results it is concluded that the E-LKPD based on R2L Method can increase students' HOTS Science Literacy in the medium category.

Keywords: E-LKPD; HOTS-Literacy; Reaction Rates

