

Retno Ayu Ningrum. Development of E-LKPD Based on Science Literacy Vibration and Wave Material. Thesis, Science Education Study Program, Faculty of Education, Trunojoyo University Madura. Supervisor: Nur Qomaria.

ABSTRACT

E-LKPD based on scientific literacy is one of the learning resources that helps and facilitates the learning process. The purpose of this study was to determine the feasibility, readability, and responses of students to the e-LKPD based on scientific literacy using live worksheets applications on vibration and wave materials. This research includes development research using the Borg and Gall models. The population in this study were all class IX MTs Mathalibul Huda Mlonggo, Jepara and class IX F students as research samples selected using purposive sampling technique. The results showed that: (1) the average validity of the media aspect was 90% and the reliability value was 94.2857142% with very valid and reliable information. In the material aspect, the average validity of the results is 88.125% and the reliability value is 93.571428567% with very valid and reliable information. (2) The level of readability of students towards scientific literacy-based e-LKPD in the limited trial was 78.3854165% and in the main product trial it was 83.0555555% with very good information. (3) The response of students to the scientific literacy-based e-LKPD in the limited trial was 79.9479167% and in the main product trial it was 79.8842593% with very good information. This shows that the development of scientific literacy-based e-LKPD using the application of live worksheets on vibration and wave materials is appropriate for use in learning.

Keywords: e-LKPD based on scientific literacy, feasibility, legibility, live worksheets, student responses