



Validity Analysis of Science Learning Devices Integrated Learning Model Connected Type on Light Topics

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ABSTRACT

This research aims to produce a suitable connected-type integrated learning model for science learning on the topic of light. The product specifications of the learning tools developed include lesson plans, worksheets, handouts, questionnaires and test instruments. The learning tools developed were reviewed by three validators. The research data were analyzed descriptively. The results showed that the results of the validation of the development of science learning tools were suitable for use in learning, with the following results: Learning Implementation Plan (i.e RPP) got a mode score of 3 (valid) and Cronbach Alpha 0,83 with the criteria of almost perfect agreement, Student Worksheets got a score of mode three (valid) and Cronbach Alpha 0,91 with the criteria of almost perfect agreement, Handout get a mode 4 score (very valid) 0.73 with the criteria of substantial agreement, the Cognitive Learning Outcome Test gets a mode 3 score (valid) and Cronbach Alpha 0,85 with the criteria of almost perfect agreement, the affective assessment sheet gets a mode 4 score (very valid) and Cronbach Alpha 0,85 with the criteria of almost perfect agreement, the psychomotor assessment sheet gets a mode 4 score (very valid) Cronbach Alpha 0,77 with the criteria of substantial agreement, and the student response questionnaire gets mode score 4 (very valid) Cronbach Alpha 1,00 with the criteria of almost perfect agreement. Based on the data analysis, it can be concluded that the learning tools developed are valid and suitable for use in learning.

INTRODUCTION

Education in Indonesia has a national education system that aims to educate the nation's life. Efforts to educate the nation's life cannot be separated from efforts to improve the quality of education and teaching. Education is one of the factors that support the progress of a country. The educational process greatly determines the birth of competent students in a particular field. The expected education is quality education and can be widely accepted in the world of work. Education is a major milestone in building the life of a nation. The more the quality of education increases, the quality of human life will also increase (Prabowo, 2013). Education is said to be of high quality if it can develop students' abilities effectively comprehensive, both mastery of knowledge (cognition), personality (affection) and skills (psychomotor) optimally (Oktamagia, 2013). The success of education is very dependent on the ability of teachers to manage the learning process, especially learning activities in the classroom for the creation of an effective teaching and learning environment system (Majid, 2013). As educators, they should strive and optimize all abilities to improve the quality of education.

Natural Sciences is a systematic collection of theories, its application is generally limited to natural phenomena, born and developed through scientific methods such as observation and experimentation and demands scientific attitudes such as curiosity, openness, honesty, and so on (Trianto, 2014). Science is a process of activity to study nature through scientific work (experimentation and observation) to produce an

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