

INTEGRATION OF LOCAL POTENTIAL IN SCIENCE LEARNING TO GROW SCIENCE LITERATION AND STUDENT'S CRITICAL THINKING SKILLS IN MAKING A NATURE OF SCIENCE

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ABSTRAK

The integration of local potential into learning in schools is needed, in a generation that is experiencing a degradation in respect for local potential and culture. This local potential can be used as a science learning resource, especially for the application process of science concepts so as to provide scientific literacy to students and develop thinking skills. The implementation of integrating local potential into learning is still experiencing several problems. The main obstacle is that teachers do not understand how to properly integrate the potential of the environment (especially local culture) into the learning process. Therefore, it is necessary to develop learning tools with local potential to realize learning that is close and in accordance with the nature of science, one of which is to foster scientific literacy and thinking skills. This objective is to produce learning tools with local potential to foster scientific literacy and critical skills, and the effectiveness of the tools developed in fostering scientific literacy and students' critical skills in the learning process.

This study uses a development model consisting of (1) the initial phase, (2) the design phase, (3) the realization phase, (4) the test, evaluation and revision phases, and (5) the implementation phase. At the beginning, analysis of supporting theories, curriculum analysis, student analysis, and analysis of teaching materials was carried out by analyzing and analyzing supporting information to plan further activities. The learning device design phase that integrates ethics is aimed at producing prototypes of learning tools, namely RPP and LKPD. The realization phase, produces products that will be validated at the test, evaluation and revision stages. The last stage is the stage of product implementation in application to determine its effectiveness. The product validation data analysis technique used is descriptive qualitative and quantitative analysis with a semen scale for effectiveness using gain score analysis.

The results of product research in the form of learning tools by integrating local potential in science learning to develop science literacy and critical thinking in the form, RPP and LKPD in the feasibility category were very well assessed by expert lecturers and science teachers. The real product that can be produced from this research is a learning tool with the theme of the interaction of living things with the local potential of Ketingan Tourism Village. The effectiveness of the product being developed can be seen from the application of the product in limited trials to see the gain score for scientific literacy and critical thinking. The gain scores for scientific literacy and scientific skills are 0.77 and 0.33 respectively with high and medium categories. It can be concluded that the product developed is effective for fostering scientific literacy and scientific skills of junior high school students on the topic of Living Creatures Interaction.

Kata Kunci: *Integration of Local Potential, Critical Thinking, Scientific Literacy*