

ABSTRAK

PENGEMBANGAN PERANGKAT PEMBELAJARAN BERBASIS MASALAH PADA MATA PELAJARAN IPA MATERI SUHU DAN KALOR KELAS V SD

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Penelitian ini dilatarbelakangi oleh kebutuhan guru akan sebuah perangkat pembelajaran untuk membekali peserta didik terkait keterampilan abad 21 di antaranya adalah meningkatkan konsentrasi dan memecahkan masalah. Penelitian ini bertujuan untuk (1) mendeskripsikan prosedur pengembangan berupa produk perangkat pembelajaran berbasis masalah pada mata pelajaran IPA materi suhu dan kalor kelas V SD; (2) mengetahui kualitas prosedur pengembangan berupa produk perangkat pembelajaran berbasis masalah pada mata pelajaran IPA materi suhu dan kalor kelas V SD.

Jenis penelitian adalah *Research and Development* (R&D) dengan menggunakan model ADDIE. Subjek penelitian adalah siswa kelas V SD Negeri Jetis. Objek penelitian adalah pengembangan produk berupa perangkat pembelajaran berbasis masalah pada mata pelajaran IPA materi suhu dan kalor kelas V SD. Teknik pengumpulan data diperoleh dengan wawancara, observasi, kuesioner dan tes.

Hasil penelitian ini menunjukkan 1) Perangkat pembelajaran berbasis Problem Based Learning yang dikembangkan sesuai dengan langkah-langkah model ADDIE yang terdiri dari *Analyze, Design, Develop, Implement, dan Evaluate*. 2) Kualitas perangkat pembelajaran berbasis masalah berdasarkan hasil validasi oleh satu ahli pembelajaran IPA dan dua guru kelas V SD menggunakan skala 1-4 secara keseluruhan memperoleh rata-rata sebesar 3,49 dengan kategori "Sangat Baik". sedangkan hasil kuisisioner tentang implementasi perangkat pembelajaran berbasis Problem Based Learning pada mata pelajaran IPA materi suhu dan kalor kelas V SD memperoleh skor rata-rata 3,25 dengan kategori "Baik"

Kata kunci: penelitian pengembangan, perangkat pembelajaran, model pembelajaran berbasis masalah, IPA

ABSTRACT**THE DEVELOPMENT OF PROBLEM-BASED LEARNING
DEVICES IN SCIENCE SUBJECT TEMPERATURE AND HEAT
MATERIALS IN 5th GRADE OF ELEMENTARY SCHOOL**

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This research was motivated by the teacher's need for a learning tool to prepare students, correlated to the 21st century skills, including; improving the concentration and problem solving. This research aims to (1) describe the development procedure in the form of learning device products based on Problem Based Learning in the science subject on temperature and heat in 5th grade of elementary school; (2) discover the quality of development procedures in the form of learning device products based on Problem Based Learning in science subjects on temperature and heat in 5th grade of elementary school.

This type of research is Research and Development (R&D) using the ADDIE model. The research subjects were fifth grade students at jetis public elementary school. The object of research was a developed product in the form of learning tools based on Problem Based Learning in science subjects on temperature and heat in 5th grade of elementary school. The data collection techniques were obtained by interviews, observations, questionnaires and tests.

The results of this study have indicated that 1) the development of learning tools on the basis of Problem-Based Learning are adjusted accordingly to the steps of ADDIE, which are Analyse, Design, Develop, Implement, and Evaluate, 2) the quality of learning tools based on Problem Based Learning were the expressed in the results of validation by one of science learning expert and two 5th grade students of elementary school teachers, using a scale of 1-4 which overall obtained an average of 3.49 in the "Very Good" category. Meanwhile, the results of the questionnaire regarding the implementation of Problem-Based Learning-based learning devices in science subjects on temperature and heat material for 5th grade of Elementary School obtained an average score of 3.25 in the "Good" category.

Keywords: *development research, learning tools, Problem Based Learning, Science*