

ABSTRAK

PENGEMBANGAN LEMBAR KERJA SISWA MATERI SUHU DAN KALOR BERBASIS PENDEKATAN KETERAMPILAN PROSES SAINS

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Tujuan penelitian ini adalah mengembangkan produk berupa LKS materi suhu dan kalor berbasis keterampilan proses sains. Penelitian pengembangan ini menggunakan pengembangan model prosedural ADDIE yang diadopsi dari Singh (2009) dan Davis (2013). Model ini terdiri atas 5 fase atau tahap utama yaitu 1) *Analyze* (Analisis), 2) *Design* (Desain), 3) *Develop* (Pengembangan), 4) *Implement* (Implementasi), 5) *Evaluate* (Evaluasi). Instrumen pengujian LKS berupa angket, lembar observasi dan test. Teknik analisis data dilakukan dengan menghitung skor kelayakan LKS validasi oleh beberapa ahli, respon pengguna LKS dan pengujian data skor hasil observasi kognitif, afektif dan psikomotorik. Efektivitas LKS diketahui dengan melakukan uji coba lapangan kepada siswa kelas X SMA Negeri 1 Banjit. Desain uji coba yang digunakan yakni *Nonequivalent Pre-Post Control Group Design*. Efektivitas lembar kerja siswa pendekatan KPS dianalisis menggunakan uji *Paired Sample T Test* dan *Independent Sample t Test*. Hasil penelitian LKS yaitu, LKS memiliki validitas konstruk sebesar 80,30% dan validitas isi sebesar 70,96%. LKS memiliki angket kemudahan 3,29, kemenarikan 3,32 dan kemanfaatan 3,19. LKS efektif

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meningkatkan rata-rata hasil belajar siswa baik pada ranah kognitif sebesar 80,00, afektif sebesar 81,30 dan psikomotorik sebesar 80,81. Hasil penelitian dapat dikatakan bahwa LKS mencapai tujuan karakteristik pengembangan LKS yaitu, memiliki validitas isi dan konstruk dengan katagori baik, tanggapan pengguna angket dengan katagori sangat mudah, sangat menarik dan bermanfaat, dan keefektifan meningkatkan rata-rata hasil belajar siswa dengan katagori sangat tinggi. Untuk penelitian selanjutnya, peneliti menyarankan supaya LKS berbasis KPS tidak hanya diterapkan untuk materi suhu dan kalor, namun dapat diterapkan dengan cabang ilmu lainnya.

Kata Kunci: Lemabar Kerja Siswa, Keterampilan Proses Sains, Suhu dan Kalor

ABSTRACT

DEVELOPMENT OF STUDENT WORKSHEET TEMPERATURE AND HEAT BASED ON MATERIALS SCIENCE PROCESS SKILLS

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The purpose of this research is to develop products in the form of student worksheet temperature and heat materials based on science process skill. This development research uses the development of the ADDIE procedural model adopted from Singh (2009) and Davis (2013). This model consists of 5 phases or the main stage is 1) Analyze, 2) Design, 3) Development, 4) Implementation, 5) Evaluation. Instrument testing of student worksheet in the form of questionnaire, observation sheet and test. Data analysis technique is done by calculating student worksheet validation feasibility score by some experts, student worksheet user response and test of cognitive, affective and psychomotor observation result score data. The effectiveness of student worksheet is known by conducting field trials to grade X students of SMA Negeri 1 Banjir. The trial design used is Nonequivalent Pre-Post Control Group Design. The effectiveness of student worksheet of science process skills approach was analyzed using Paired Sample T Test and Independent Sample t Test. The result of LKS research is LKS has construct validity of 80.30% and content validity of 70.96%. LKS has an ease questionnaire of 3.29, 3.32 interest and 3.19 benefit. student worksheet effectively improve the average of student learning outcomes both in the cognitive domain of 80.00, affective of

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81.30 and psychomotor of 80.81. The result of the research can be said that scien process skills achieves the characteristic goal of scien process skills development that is, having the validity of content and constructs with good category, user questionnaire responses with categories is very easy, very interesting and useful, and effectiveness improve the average of student learning outcomes with very high category. For further research, the researcher suggests that scien process skills based student worksheet is not only applied to temperature and heat materials, but can be applied with other branches of science.

Keywords: ***Student Worksheet, Scien Process Skills, Temperature and Heat***