ABSTRAK

Desy Indriani (NIM. 8196182030). Pengembangan Lembar Kerja Peserta Didik (LKPD) Berbasis STEM Untuk Meningkatkan Kemampuan Memecahkan Masalah dan Hasil Belajar IPA pada Materi Gaya dan Gerak Benda Kelas IV SDN 05 Binanga Dua. Program Studi Pendidikan Dasar Program Pascasarjana Universitas Negeri Medan. 2023.

Permasalahan yang terjadi yaitu adanya penggunaan LKPD yang belum maksimal dalam proses pembelajaran. LKPD yang demikian tidak bersifat interaktif sehingga berdampak pada rendahnya hasil belajar dan kemampuan memecahkan masalah IPA peserta didik kelas IV di SDN 05 Binanga Dua. Penelitian ini termasuk penelitian pengembangan. Penelitian pengembangan ini menggunakan prosedur pengembangan model ADDIE yaitu *Analyze*, *Design*, *Development*, *Implementation*, *Evaluation*. Hasil pengembangan menunjukkan bahwa Proses pembuatan menghasilkan LKPD berbasis pendekatan STEM materi gaya dan gerak benda untuk peserta didik kelas IV dengan prosedur pengembangan ADDIE yang berkualitas dan sahih (valid). Hasil penelitian menunjukkan bahwa hasil validasi uji kelayakan LKPD berdasarkan penilaian dari tiga validator yaitu hasil validasi ahli materi pembelajaran sebesar 88,23% dengan klasifikasi sangat layak, hasil validasi ahli bahasa sebesar 83,03% dengan klasifikasi sangat layak,hasil validasi ahli desain penyajian sebesar 93,75% dengan kualifikasi sangat layak. Selanjutnya dilakukan uji kelayakan pada kelompok kecil mendapatkan data presentase sebesar 84,6% dan dilakukan kembali uji coba pada kelompok besar dengan hasil presentase 89,25% sebagai penguat penilaian kelayakan dilakukan penilaian oleh wali kelas dengan hasil presentase 90%. Sehingga berdasarkan validitas produk LKPD menunjukkan hasil yang sangat valid yang menunjukkan produk LKPD sangat layak untuk diterapkan dalam kegiatan pembelajaran.

Kata Kunci: Pengembangan, LKPD, STEM

ABSTRACT

Desy Indriani (NIM. 8196182030). develop a Student Worksheet (LKPD) based on a Science, Technology, Engineering and Mathematics *To Improve Problem Solving Ability and Science Learning Outcomes on Force and Object Movement Class IV SDN 05 Binanga Dua. Basic Education Study Program, Postgraduate Program, Medan State University. 2023.*

The problem that occurs is the use of student worksheets that has not been *maximized in the learning process student worksheets used in the learning process only comes from.The student worksheets are not interactive, so that they have an impact on low learning outcomes and ability to solve science problems for fourth grade students at SDN 05 Binanga Dua. This research includes development research. This development research uses ADDIE development procedures which consist of analysis, design, development, implementation and evaluation. The results of the development show that the manufacturing process produces The student worksheets on the STEM approach for grade IV students with a quality and valid. The results showed that the validation results of the LKPD feasibility test were based on the assessment of the three validators, namely the validation results of learning material experts of 88.23% with a very feasible classification, the validation results of linguists of 83.03% with a very feasible classification, the results of the presentation design expert validation of 93.75% with very decent qualifications. Furthermore, a feasibility test was carried out in small groups to obtain a data percentage of 84.6% and the trial was carried out again in the large group with a percentage result of 89.25% as a reinforcement of the feasibility assessment carried out by the homeroom teacher with a percentage result of 90%. So based on the validity of the student worksheets product, it shows very valid results which show that the student worksheets product is very feasible to be applied in learning activities.*

Keywords: Development, Student Worksheet, STEM