

ABSTRAK

ADE IRWANI. Pengembangan Lembar Kerja Peserta Didik (LKPD) Berbasis STEM (*Science, Technology, Engineering and Mathematics*) di Kelas IV SDN 060863 Medan Timur. Skripsi. Medan: Fakultas Ilmu Pendidikan Universitas Negeri Medan. 2024.

Tujuan dari penelitian ini adalah untuk mengetahui kelayakan, kepraktisan dan keefektifan Lembar Kerja Peserta Didik (LKPD) Berbasis STEM (*Science, Technology, Engineering and Mathematics*) di kelas IV SDN 060863 Medan Timur. Penelitian ini menggunakan model pengembangan ADDIE yang terdiri dari 5 tahap: *analysis* (analisis), *design* (perancangan), *development* (pengembangan), *implementation* (implementasi), *evaluation* (evaluasi). Subjek pada penelitian ini yaitu validator ahli media, validator ahli materi, dan praktisi pendidikan, serta 27 siswa kelas IV SDN 060863 Medan Timur. Instrumen penelitian meliputi wawancara, kuesioner dan tes. Data dianalisis secara kuantitatif dan kualitatif. Hasil penelitian menunjukkan validasi oleh ahli media dilakukan dalam 2 tahap, dengan hasil 85,3% (Sangat Layak) dan 95,3% (Sangat Layak). Validasi oleh ahli materi dilakukan dalam dua tahap, dengan hasil 80% (Layak) dan 92% (Sangat Layak). Uji kepraktisan dilakukan kepada praktisi pendidikan dan memperoleh persentase kepraktisan sebesar 94,8% (Sangat Praktis). Berdasarkan hasil keefektifan LKPD, hasil *pre-test* dan *post-test* menunjukkan rata-rata *pre-test* 37,7 dan rata-rata *post-test* 84,8. dengan kategori “Sangat Tuntas”. Dengan adanya peningkatan nilai *post-test* ini, dapat disimpulkan bahwa LKPD berbasis STEM “Efektif” digunakan dalam proses pembelajaran. Berdasarkan hasil penelitian tersebut dapat ditarik kesimpulan bahwa, LKPD berbasis STEM ini layak, praktis dan efektif digunakan.

Kata Kunci: Lembar Kerja Peserta Didik (LKPD), STEM (*Science Technology, Engineering and Mathematics*).

ABSTRACT

ADE IRWANI. Development of STEM (Science, Technology, Engineering and Mathematics) Based Student Worksheets (LKPD) in Class IV SDN 060863 East Medan. Skripsi. Medan: Faculty of Education, Universitas Negeri Medan. 2024.

The aims to of this study is to determine the feasibility, practicality and effectiveness of STEM (Science, Technology, Engineering and Mathematics) Based Student Worksheets (LKPD) in class IV at SDN 060863 Medan Timur. This research uses the ADDIE development model which consists of 5 stages: analysis, design, development, implementation, evaluation. The subjects in this research were media expert validators, material expert validators, and education practitioners, as well as 27 class IV students at SDN 060863 East Medan. Research instruments include interviews, questionnaires and tests. Data was analyzed quantitatively and qualitatively. The research results show that validation by media experts was carried out in 2 stages, with results of 85.3% (Very Feasible) and 95.3% (Very Feasible). Validation by material experts was carried out in two stages, with results of 80% (Feasible) and 92% (Very Eligible). The practicality test was carried out on educational practitioners and obtained a practicality percentage of 94.8% (Very Practical). Based on the results of the effectiveness of the LKPD, the pre-test and post-test results showed a pre-test average of 37.7 and a post-test average of 84.8. with the "Very Complete" category. With this increase in post-test scores, it can be concluded that STEM-based LKPD is "effectively" used in the learning process. Based on the results of this research, it can be concluded that STEM-based LKPD is feasible, practical and effective to use.

Keywords: Student Worksheets (LKPD), STEM (Science Technology, Engineering and Mathematics).