ABSTRAK

Veronika Juliani. 2024. Pengembangan Lembar Kerja Peserta Didik Berbasis Asesmen Kompetensi Minimum untuk Memfasilitasi Kemampuan Literasi Matematika dan Pemahaman Konsep. Program Studi Pendidikan Matematika, Jurusan Pendidikan Matematika dan Ilmu Pengetahuan Alam, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Sanata Dharma.

Tujuan penelitian ini 1) mengembangkan LKPD berbasis AKM yang dapat memfasilitasi kemampuan literasi matematika dan pemahaman konsep peserta didik di SMP serta 2) mendeskripsikan proses dan kualitas LKPD berbasis AKM yang dikembangkan. Penelitian ini menggunakan model Hannafin & Peck, yang mencakup tiga tahap dengan evaluasi dan revisi di setiap tahap. Tahapan tersebut yang terdiri dari 1) analisis kebutuhan, di mana evaluasi dan revisi dilakukan untuk memastikan data awal lengkap, 2) desain, dengan evaluasi dan revisi untuk menilai kesesuaian rancangan, dan 3) pengembangan dan implementasi, di mana produk yang dikembangkan dievaluasi dan direvisi untuk memastikan kualitas dan efektivitas implementasinya. Data dikumpulkan melalui observasi, wawancara, kuesioner, validasi ahli, dan tes akhir pada peserta didik. Kemudian data dianalisis dengan direduksi, penyajian data hingga penarikan kesimpulan. Penelitian ini menghasilkan LKPD berbasis AKM yang terdiri dari dua bagian LKPD refleksi dan LKPD translasi. Masing-masing LKPD mencakup empat jenis soal pilihan ganda, benar salah, menjodohkan, dan uraian. Produk yang dikembangkan dievaluasi berdasarkan kriteria validitas kepraktisan, dan keefektifan. Hasil penelitian 1) Validasi produk mencapai 78,28%, menunjukkan bahwa produk ini valid, 2) respons peserta didik dan hasil observasi produk ini dinilai praktis, dan 3) hasil tes peserta didik menunjukkan produk ini efektif dengan pencapaian 79%. Berdasarkan validasi, kepraktisan, dan keefektifan, dapat disimpulkan bahwa LKPD berbasis AKM yang dikembangkan efektif memfasilitasi kemampuan literasi matematika dan pemahaman konsep peserta didik dalam pembelajaran sub-bab refleksi dan translasi.

Kata Kunci : Asesmen kompetensi umum, literasi matematika, pemahaman konsep, penelitian pengembangan, refleksi dan translasi.

ABSTRACT

Veronika Juliani. 2024. Development of Student Worksheets Based on Minimum Competency Assessment to Facilitate Mathematical Literacy and Concept Understanding. Mathematics Education Study Program, Department of Mathematics and Natural Sciences Education, Faculty of Teacher Training and Education, Sanata Dharma University.

The purpose of this research is 1) to develop AKM-based LKPD that can facilitate mathematical literacy skills and concept understanding of students in junior high school and 2) to describe the process and quality of AKM-based LKPD developed. This study used the Hannafin & Peck model, which includes three stages with evaluation and revision at each stage. The stages consist of (1) needs analysis, where evaluation and revision are conducted to ensure the initial data is complete, (2) design, with evaluation and revision to assess the suitability of the design, and (3) development and implementation, where the developed product is evaluated and revised to ensure the quality and effectiveness of its implementation. Data were collected through observation, interviews, questionnaires, expert validation, and final tests on learners. Then the data were analyzed by reducing, presenting data to drawing conclusions. This research produced AKM-based LKPDs consisting of two parts of reflection LKPDs and translational LKPDs. Each LKPD includes four types of multiple choice questions, true false, match, and description. The developed products were evaluated based on the validity criteria of practicality, and effectiveness. The results of the study (1) Product validation reached 78.28%, indicating that this product is valid, (2) student responses and observation results of this product are considered practical, and (3) student test results show this product is effective with the achievement of 79%. Based on validation, practicality, and effectiveness, it can be concluded that the developed AKM-based LKPD effectively facilitates students' mathematical literacy skills and concept understanding in learning reflection and translation subchapters.

Keywords: Minimum competency assessment, mathematical literacy, concept understanding, development research, reflection and translation.