

Abstrak

Tujuan penelitian ini adalah untuk mengembangkan perangkat pembelajaran menggunakan model inkuiri terbimbing. Penelitian ini menggunakan model pengembangan 4D yang terdiri atas 4 tahapan yaitu *Define* (pendefinisian), *Design* (perancangan), *Develop* (Pengembangan), dan *Disseminate* (Penyebarluasan). Hasil penelitian ini menunjukkan bahwa: (1) Hasil kevalidan silabus diperoleh skor 77,75% dari ahli desain pembelajaran, (2) Hasil kevalidan rencana pelaksanaan pembelajaran (RPP) diperoleh skor 76% dari ahli desain pembelajaran (3) Hasil kevalidan lembar kerja peserta didik (LKPD) diperoleh skor 75% dari ahli materi (4) Hasil kevalidan soal diperoleh skor 75% dari ahli materi. Hasil kevalidan pengembangan perangkat dari silabus, RPP, LKPD, dan soal pada kriteria valid.

Kata Kunci: E-LKPD, bangun ruang, model 4d

Abstract

This developmental research aims primarily to develop electronic Student Worksheets (E-LKPD) based on liveworksheets for the topic of spatial structures for fifth-grade elementary school students, which are valid according to the validation results of subject matter experts, instructional design experts, and instructional media experts. The development of this module adopts the 4D development model, which encompasses four stages: (1) Define, (2) Design, (3) Develop, and (4) Disseminate. The research sample consists of 30 fifth-grade students from SD Negeri Kebun 2 Kamal. A total of 83% of the students enjoy mathematics learning, 63% of them admit to struggling with understanding the mathematics content provided by the school, and 57% of the total students express their liking for mathematics lessons. Based on the validation results from experts, the following percentage results were obtained: subject matter experts 90.0% (valid), E-LKPD instructional material experts 90.0% (highly valid), and instructional design experts 86% (highly valid). The combined percentage from the three validations is 89%, falling within the range of $84\% \leq X \leq 100\%$ which is categorized as "highly valid" with the note "can be used without modification".

Keywords: *E-LKPD, spatial structures, 4D development model*