

Rahma Maulidia Nur Fadilah, 2025. Pengembangan E-LKPD Berbasis *Problem Based Learning* Menggunakan *Liveworksheet* Pada Materi Cahaya Dan Sifatnya Di Kelas V SDN Pilang 1, Skripsi, Program Studi Pendidikan Guru Sekolah Dasar, Fakultas Keguruan Dan Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing: Bagus Rahmad Wijaya, S.Pd., M.Pd.

ABSTRAK

Penelitian ini bertujuan untuk mengembangkan E-LKPD berbasis Problem Based Learning menggunakan platform Liveworksheet pada materi cahaya dan sifat-sifatnya untuk siswa kelas V SDN Pilang 1. Penelitian ini termasuk dalam jenis penelitian dan pengembangan (R&D) dengan model pengembangan 4D (Define, Design, Develop, Disseminate) yang dimodifikasi. Instrumen yang digunakan meliputi lembar validasi, lembar observasi, angket respon siswa, dan tes hasil belajar. Hasil validasi menunjukkan bahwa E-LKPD berada pada kategori sangat valid dengan persentase kevalidan bahan ajar sebesar 88,33%, validasi desain pembelajaran sebesar 93,33%, dan validasi materi sebesar 77,08%. Kepraktisan E-LKPD dibuktikan melalui hasil observasi guru sebesar 100% dan observasi siswa sebesar 92,51%, keduanya termasuk dalam kategori sangat praktis. Keefektifan E-LKPD ditunjukkan oleh ketuntasan klasikal siswa sebesar 100% dan peningkatan hasil belajar dengan skor N-Gain sebesar 0,69 (kategori sedang), serta respon siswa terhadap penggunaan E-LKPD dengan persentase 97,82% dalam kategori sangat efektif. Berdasarkan ketiga aspek tersebut, dapat disimpulkan bahwa E-LKPD berbasis Problem Based Learning menggunakan Liveworksheet efektif digunakan dalam pembelajaran IPAS materi cahaya dan sifatnya di kelas V SD. Dengan demikian, E-LKPD yang dikembangkan valid, praktis, dan efektif untuk digunakan dalam proses pembelajaran.

Kata kunci: E-LKPD, *Problem Based Learning*, *Liveworksheet*, Cahaya dan Sifatnya

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ABSTRACT

This study aimed to develop an electronic student worksheet (E-LKPD) based on Problem Based Learning using the Liveworksheet platform for the topic of light and its properties for fifth-grade students at SDN Pilang 1. This research was categorized as Research and Development (R&D) using a modified 4D development model (Define, Design, Develop, Disseminate). The instruments used included validation sheets, observation sheets, student response questionnaires, and learning outcome tests. The validation results showed that the E-LKPD was in the "very valid" category, with a validation percentage of 88.33% for teaching materials, 93.33% for instructional design, and 77.08% for content validation. The practicality of the E-LKPD was proven through teacher observation results of 100% and student observation results of 92.51%, categorized into "very practical". The effectiveness of the E-LKPD was shown by 100% classical student mastery and an N-Gain score of 0.69 (medium category), as well as student responses to the use of the E-LKPD reaching 97.82% in the "very effective" category. Based on these three aspects, it was concluded that the E-LKPD based on Problem Based Learning using Liveworksheet was effective for use in teaching science content on light and its properties in fifth-grade classes. Thus, the developed E-LKPD was valid, practical, and effective for use in the learning process.

Keywords: *E-Worksheet, Problem-Based Learning, Liveworksheet, Light and Its Properties*