

ABSTRAK

PENGEMBANGAN LKPD ELEKTRONIK BERBANTUAN *LIVEWORKSHEETS* UNTUK MENINGKATKAN PEMAHAMAN MATERI SISWA PADA MATA PELAJARAN IPAS KELAS V SEKOLAH DASAR

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Penelitian ini dilatarbelakangi oleh rendahnya pemahaman materi siswa pada mata pelajaran IPAS kelas V Sekolah Dasar serta masih terbatasnya penggunaan bahan ajar berbasis teknologi dalam pembelajaran. LKPD belum disusun sesuai dengan sintaks model pembelajaran *discovery learning*. Oleh karena itu, penelitian ini bertujuan untuk mengembangkan LKPD elektronik berbantuan *liveworksheets* yang valid, praktis, dan efektif untuk meningkatkan pemahaman materi siswa pada mata pelajaran IPAS. Penelitian ini menggunakan metode penelitian dan pengembangan (*Research and Development*) dengan model Borg and Gall yang meliputi sepuluh tahapan pengembangan produk. Subjek penelitian adalah siswa kelas V SD Negeri 2 Sawah Lama Kota Bandar Lampung pada materi ekosistem. Teknik pengumpulan data dilakukan melalui validasi ahli, angket kepraktisan, serta tes pretest dan posttest untuk mengukur efektivitas produk. Hasil penelitian menunjukkan bahwa LKPD elektronik berbantuan *liveworksheets* memperoleh nilai validasi sebesar 85,33% dengan kategori sangat valid. Kepraktisan produk memperoleh persentase sebesar 95,48% dengan kategori sangat praktis. Selain itu, produk terbukti efektif meningkatkan pemahaman materi siswa dengan nilai N-gain sebesar 0,7034 yang termasuk kategori tinggi. Uji *independent sample t-test* menunjukkan nilai signifikansi $0,000 < 0,05$ yang berarti terdapat perbedaan signifikan antara kelas yang menggunakan LKPD elektronik berbantuan *liveworksheets* dan kelas yang tidak menggunakannya. Dengan demikian, LKPD elektronik berbantuan *liveworksheets* yang dikembangkan dinyatakan valid, praktis, dan efektif untuk meningkatkan pemahaman materi siswa pada mata pelajaran IPAS kelas V Sekolah Dasar.

Kata Kunci : LKPD Elektronik, *Liveworksheets*, *Discovery Learning*, Pemahaman Materi.

ABSTRACT

DEVELOPMENT OF ELECTRONIC WORKSHEETS USING LIVEWORKSHEETS TO ENHANCE STUDENTS' UNDERSTANDING OF THE CURRICULUM IN FIFTH-GRADE ELEMENTARY SCHOOL SCIENCE

By

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This study was motivated by the low level of students' understanding of IPAS material in fifth grade elementary school and the limited use of technology-based teaching materials in learning. The worksheets have not been compiled in accordance with the syntax of the discovery learning model. Therefore, this study aims to develop valid, practical, and effective electronic worksheets assisted by liveworksheets to improve students' understanding of IPAS subject matter. This study uses the Research and Development method with the Borg and Gall model, which includes ten stages of product development. The research subjects were fifth-grade students at SD Negeri 2 Sawah Lama Kota Bandar Lampung studying the ecosystem. Data collection techniques were carried out through expert validation, practicality questionnaires, and pretest and posttest tests to measure the effectiveness of the product. The results showed that the electronic worksheets assisted by liveworksheets obtained a validation score of 85.33% with a category of highly valid. The practicality of the product obtained a percentage of 95.48% with a category of highly practical. In addition, the product was proven to be effective in improving students' understanding of the material with an N-gain value of 0.7034, which is classified as high. The independent sample t-test showed a significance value of $0.000 < 0.05$, which means that there was a significant difference between the classes that used the electronic worksheets assisted by liveworksheets and those that did not. Thus, the electronic worksheets assisted by liveworksheets that were developed are declared valid, practical, and effective in improving students' understanding of IPAS material in Grade V of Elementary School.

Keywords : Electronic Worksheets, Liveworksheets, Discovery Learning, Understanding of the Material.