ABSTRAK

**PENGEMBANGAN E-LKPD BERBASIS *DISCOVERY LEARNING*
BERORIENTASI KEAKTIFAN BERBANTUAN LIVEWORKSHEETS
PADA MATERI PERKEMBANGAN TEORI ATOM**

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Penyampaian materi secara verbal dari guru kepada peserta didik, membuat peserta didik kurang aktif pada saat proses pembelajaran. Oleh sebab itu, guru dituntut untuk memilih model dan bahan ajar yang efektif agar dapat meningkatkan keaktifan dan ketertarikan peserta didik pada suatu materi pembelajaran. Pengembangan e-LKPD berbasis *Discovery Learning* dapat dijadikan penunjang kegiatan belajar pada materi perkembangan teori atom. Tujuan dari penelitian ini yaitu untuk mengetahui kualitas e-LKPD berbasis *Discovery Learning* berorientasi keaktifan berbantuan LiveWorksheets. Jenis penelitian yaitu *Research and Development* dan model pengembangan yaitu model ADDIE (*Analysis*, *Design*, *Development*, *Implementation* dan *Evaluation*). Sampel pada penelitian ini adalah 12 peserta didik kelas XI IPA. Instrumen penelitian yang digunakan adalah lembar wawancara, lembar validasi, butir soal evaluasi dalam bentuk pilihan ganda, serta lembar angket respon peserta didik terhadap produk. Hasil penelitian dianalisis secara deskriptif. Hasil dari penelitian menunjukkan bahwa produk memenuhi kriteria sangat layak dan sangat valid dengan rata-rata persentase 89,5%, kriteria sangat efektif dengan rata-rata nilai pengerjaan soal dalam e-LKPD dan soal evaluasi yaitu 85,25, kriteria sangat praktis dengan rata-rata respon peserta didik sebesar 94%. Berdasarkan data hasil analisis keaktifan belajar, dari 12 peserta didik terdapat 10 peserta didik yang kriteria keaktifannya sangat aktif dan 2 peserta didik yang kriteria keaktifannya aktif. Rata-rata keaktifan 12 peserta didik adalah 83% termasuk dalam kriteria sangat aktif. Bahan ajar e-LKPD berbasis *Discovery Learning* berbantuan LiveWorksheets pada materi perkembangan teori atom dapat digunakan dan efektif diterapkan pada proses pembelajaran.

Kata Kunci: e-LKPD Berbasis *Discovery Learning*, Keaktifan Belajar, LiveWorksheet, Perkembangan Teori Atom

ABSTRACT

DEVELOPMENT OF E-LKPD BASED ON DISCOVERY LEARNING ORIENTED BY ACTIVITY WITH THE ASSISTANCE OF LIVEWORKSHEETS ON ATOMIC THEORY DEVELOPMENT MATERIAL

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Verbal delivery of material from teachers to students makes students less active during the learning process. Therefore, teachers are required to choose effective teaching models and materials in order to increase students' activeness and interest in learning material. Development of e-LKPD based on Discovery Learning can be used to support learning activities on material on the development of atomic theory. The aim of this research is to determine the quality of e-LKPD based on activity-oriented Discovery Learning assisted by LiveWorksheets. The type of research is Research and Development and the development model is the ADDIE model (Analysis, Design, Development, Implementation and Evaluation). The sample in this study was 12 students from class XI Science. The research instruments used were interview sheets, validation sheets, evaluation questions in multiple choice form, as well as questionnaire sheets for student responses to the product. The research results were analyzed descriptively. The results of the research show that the product meets the criteria of being very feasible and very valid with an average percentage of 89.5%, the criteria are very effective with the average score for working on questions in e-LKPD and evaluation questions being 85.25, the criteria are very practical with an average -The average student response was 94%. Based on data from the analysis of learning activity, of the 12 students there were 10 students whose activity criteria were very active and 2 students whose activity criteria were active. The average activity of 12 students was 83%, including very active criteria. Discovery Learning-based e-LKPD teaching materials assisted by LiveWorksheets on the development of atomic theory can be used and effectively applied to the learning process.

Keywords*: e-LKPD based on Discovery Learning, Development of Atomic Theory, Learning Activity, LiveWorksheets*