

ABSTRAK

Imam Hidayat, 2022. Pengembangan E-LKPD dengan 3D Pageflip Professional Berbasis Self Organized Learning Environments (SOLE) pada Materi Larutan Penyangga. Skripsi, Program Studi Pendidikan Kimia, Fakultas Keguruan dan Ilmu Pendidikan. Universitas Maritim Raja Ali Haji Tanjungpinang. Pembimbing Skripsi: Assist. Prof. Dina Fitriyah, S.Pd., M.Si. dan Assist. Prof. Inelda Yulita, S.Pd., M.Pd.

Kata Kunci: 1) E-LKPD; 2) *Self Organized Learning Environments* (SOLE); 3) Larutan Penyangga

Kegiatan belajar mengajar di Indonesia pernah dilakukan secara daring yang membuat peserta didik kesulitan memahami materi dikarenakan kurangnya pengembangan bahan ajar, khususnya pada materi yang memerlukan eksperimen seperti larutan penyangga. Maka dari itu diperlukan pengembangan bahan ajar yang sesuai dengan perkembangan zaman era digital. Penelitian ini bertujuan untuk menghasilkan dan menguji produk E-LKPD dengan *3D Pageflip Professional* berbasis *Self Organized Learning Environments* (SOLE) pada materi larutan penyangga guna mengetahui kelayakan dan kepraktisan produk. Metode yang digunakan yaitu *Research and Development*, dengan model ADDIE (*Analysis, Design, Development, Implementation, Evaluation*). Penelitian ini diuji oleh ahli materi, ahli media serta guru dan siswa kelas XI MIPA sebanyak 20 peserta didik sebagai responden. Hasil penelitian menunjukkan bahwa E-LKPD dengan *3D Pageflip Professional* berbasis *Self Organized Learning Environments* (SOLE) pada materi larutan penyangga dinyatakan valid. Hal tersebut berdasarkan penilaian oleh ahli materi sebesar 88,33% dengan kriteria sangat valid, ahli media sebesar 76% dengan kriteria valid dan praktis. Persentase praktikalitas oleh 20 peserta didik dan guru terhadap produk yang dikembangkan masing-masing sebesar 88,95% dan 90,3% dengan kriteria keduanya adalah sangat praktis. Berdasarkan hasil penelitian dapat disimpulkan bahwa E-LKPD dengan *3D Pageflip Professional* berbasis *Self Organized Learning Environments* (SOLE) pada materi larutan penyangga sangat layak digunakan sebagai bahan ajar kimia.

ABSTRACT

Imam Hidayat, 2022. Development of E-LKPD with 3D Pageflip Professional based on Self Organized Learning Environments (SOLE) on a buffer solution material, Thesis, Chemistry Education Study Program, Faculty of Teacher Training and Education. Raja Ali Haji Tanjungpinang Maritime University. Thesis Supervisor: Assist. Prof. Dina Fitriyah S.Pd., M.Si. and Assist. Prof. Inelda Yulita S.Pd., M.Pd.

Keywords: 1) E-LKPD; 2) Self Organized Learning Environments (SOLE); 3) Buffer Solution

Teaching and learning activities in Indonesia have been conducted online which made it difficult for students to understand the material due to the lack of development of teaching materials, especially on materials that require experiments such as buffer solutions. Therefore, it is necessary to develop teaching materials that are in accordance with the development of the digital era. This study aims to produce and test an E-LKPD product with 3D Pageflip Professional based on Self Organized Learning Environments (SOLE) on a buffer solution material to determine the feasibility and practicality of the product. The method used is Research and Development, with the ADDIE model (Analysis, Design, Development, Implementation, Evaluation). This research was tested by material experts, media experts as well as teachers and students of class XI MIPA as many as 20 students as respondents. The results showed that the E-LKPD with 3D Pageflip Professional based on Self Organized Learning Environments (SOLE) on the buffer solution material was declared valid. This is based on an assessment by material experts of 88.33% with very valid criteria, 76% of media experts with valid and practical criteria. The percentages of practicality by 20 students and teachers on the products developed were 88,95% and 90,3%, respectively, with both criteria being very practical. Based on the results of the study, it can be concluded that the E-LKPD with 3D Pageflip Professional based on Self Organized Learning Environments (SOLE) on the buffer solution material is very suitable to be used as chemistry teaching materials.