

ABSTRAK

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Kata Kunci: E-LKPD, Kesetimbangan Kimia, Problem Based Learning (PBL)

Pengembangan E-LKPD berbasis *problem based learning* (PBL) pada materi kesetimbangan kimia SMA dilatarbelakangi oleh belum maksimalnya penggunaan bahan ajar, baik bahan ajar non-elektronik maupun elektronik di SMA Negeri 1 Toapaya. Permasalahan yang dihadapi selama proses pembelajaran adalah bahan ajar yang kurang menarik, peserta didik kurang aktif, sulit memahami materi pembelajaran, dan hasil belajar yang kurang maksimal pada materi kesetimbangan kimia. Penelitian ini bertujuan untuk mengembangkan, menguji tingkat validitas, dan praktikalitas dari E-LKPD berbasis *Problem Based Learning* (PBL) pada materi Kesetimbangan Kimia SMA. Penelitian ini menggunakan metode *Research and Development* (R&D), dengan model ADDIE yaitu *Analysis* (Analisis), *Design* (Perancangan), *Development* (Pengembangan), *Implementation* (Penerapan) dan *Evaluation* (Evaluasi). Bahan ajar divalidasi oleh satu orang ahli bahan ajar dan satu orang ahli materi. Subjek penelitian adalah pendidik dan peserta didik kelas XI IPA SMA Negeri 1 Toapaya. Hasil validasi ahli bahan ajar sebesar 84,61% dengan kategori sangat valid dan penilaian oleh ahli materi sebesar 86,11% dengan kategori sangat valid. Hasil praktikalitas guru terhadap produk mendapatkan persentase sebesar 86,36% dengan kategori sangat praktis dan persentase praktikalitas peserta didik terhadap produk sebesar 88,92% dengan kategori sangat praktis. Berdasarkan Penelitian yang dilakukan dapat disimpulkan bahwa E-LKPD berbasis *problem based learning* (PBL) pada materi kesetimbangan kimia layak digunakan pada pembelajaran kimia.

ABSTRACT

Alfryta Yanti Manurung. 2023. *Development of E-LKPD Problem Based Learning (PBL) on High School Chemical Equilibrium Material*. Thesis. Tanjungpinang: Chemistry Education Study Program, Faculty of Teacher Training and Education, Raja Ali Haji Maritime University. Advisor I: Assist. Prof. Dina Fitriyah, S.Pd., M.Si. Advisor II: Assist. Prof. Rita Fitriani, S.Pd., M.Pd.

Keywords: Chemical Equilibrium, E-LKPD, Problem Based Learning (PBL),

The background to the development of problem-based learning (PBL) E-LKPD on high school chemical equilibrium material is the not yet optimal use of teaching materials, both non-electronic and electronic teaching materials at SMA Negeri 1 Toapaya. The problems encountered during the learning process were teaching materials that were less interesting, students were less active, had difficulty understanding learning material, and learning outcomes were less than optimal in chemical equilibrium material. This study aims to develop, test the level of validity, and practicality of the E-LKPD based on Problem Based Learning (PBL) on High School Chemical Equilibrium material. This study uses the Research and Development (R&D) method, with the ADDIE model namely Analysis, Design, Development, Implementation and Evaluation. Teaching materials are validated by one teaching material expert and one material expert. The research subjects were educators and students of class XI IPA SMA Negeri 1 Toapaya. The validation results of teaching material experts were 84.61% in the very valid category and the assessment by material experts was 86.11% in the very valid category. The results of the teacher's practicality of the product get a percentage of 86.36% in the very practical category and the percentage of students' practicality of the product is 88.92% in the very practical category. Based on the research conducted, it can be concluded that problem-based learning (PBL) E-LKPD on chemical equilibrium material is appropriate for use in chemistry learning.