ABSTRAK

Lilis Safitri, NIM 4203141015 (2024). Pengembangan Lembar Kerja Peserta Didik Elektronik Berbasis Problem Based Learning pada Materi Perubahan Lingkungan di SMA.

Penelitian ini bertujuan untuk mengetahui tingkat kelayakan Lembar Kerja Peserta Didik Elektronik (*e*-LKPD), respon guru terhadap *e*-LKPD, respon jawaban siswa terhadap *e*-LKPD, dan pengaruh penggunaan *e*-LKPD terhadap hasil belajar siswa pada materi perubahan lingkungan. Penelitian ini dilakukan di sekolah MAN 3 Medan pada bulan Mei 2024. Penelitian ini merupakan jenis penelitian dan pengembangan (*research and development)* dengan menggunakan model pengembangan ADDIE yang meliputi tahapan analisis (*analyze*), perancangan (*design*), pengembangan (*development*), implementasi (*implementation*), dan evaluasi (*evaluation*). Instrumen pada penelitian ini yaitu lembar angket penilaian ahli materi, ahli pembelajaran, dan ahli media; lembar angket respon guru dan instrumen tes hasil belajar. *e*-LKPD yang dikembangkan dinilai oleh ahli materi, ahli pembelajaran, dan ahli media. *e*-LKPD diujicobakan di kelas X MIPA 4 dan X MIPA 5. Hasil penelitian menunjukkan bahwa *e*-LKPD berbasis *problem based learning* yang dikembangkan pada materi perubahan lingkungan di MAN 3 Medan dikategorikan sangat layak menurut ahli materi (92,8%) dan ahli pembelajaran (97,22%), sedangkan menurut ahli media dikategorikan layak (72,91%). Hasil respon guru terhadap *e*-LKPD berbasis *problem based learning* yang dikembangkan tergolong sangat baik (97,91%). Hasil respon jawaban siswa terhadap *e*-LKPD mendapatkan nilai rata-raat sebesar 91,44, dan ada pengaruh yang signifikan terhadap hasil belajar siswa setelah menggunakan *e*-LKPD berbasis *problem based learning* pada materi perubahan lingkungan di kelas X MIPA 4 MAN 3 Medan. Berdasarkan hasil kelayakan ahli, respon guru, respon siswa, dan tes hasil belajar dapat diketahui bahwa *e*-LKPD berbasis *problem based learning* pada materi perubahan lingkungan yang dikembangkan layak untuk digunakan dalam pembelajaran.

Kata kunci: *e*-LKPD, *Problem Based Learning*, Perubahan Lingkungan.

ABSTRACT

Lilis Safitri, NIM 4203141015 (2024). Development of Electonic Student Worksheets Based on Problem Based Learning on Environmental Change Material in High School.

This research aims to determine the feasibility level of Electronic Student Worksheets (e-LKPD), teacher responses to e-LKPD, student responses to e-LKPD, and the influence of using e-LKPD on student learning outcomes on environmental change material. This research was conducted at the MAN 3 Medan school in May 2024. This research is a type of research and development using the ADDIE development model which includes the stages of analysis, design, development, implementation. implementation), and evaluation. The instruments in this research are questionnaires for assessment of material experts, learning experts and media experts; teacher response questionnaire sheets and learning outcome test instruments. The e-LKPD developed was assessed by material experts, learning experts and media experts. e-LKPD was tested in classes X MIPA 4 and X MIPA 5. The results of the research show that problem based learning based e-LKPD developed on environmental change material at MAN 3 Medan is categorized as very feasible according to material experts (92.8%) and learning experts (97.22%), while according to media experts it is categorized as feasible (72.91%). The results of teacher responses to the problem-based learning-based e-LKPD that was developed were classified as very good (97.91%). The results of student responses to e-LKPD obtained an average score of 91.44, and there was a significant influence on student learning outcomes after using e-LKPD based on problem based learning on environmental change material in class X MIPA 4 MAN 3 Medan. Based on the results of expert feasibility, teacher responses, student responses, and learning outcomes tests, it can be seen that the e-LKPD based on problem based learning on environmental change material developed is suitable for use in learning.

Keywords: *e*-LKPD, problem based learning, environmental change.