

ABSTRAK

PENGEMBANGAN e-LKPD BERBASIS PROYEK PENGOLAHAN LIMBAH AIR CUCI TANGAN UNTUK MENINGKATKAN KETERAMPILAN BERPIKIR KREATIF SISWA SMP

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Penelitian ini bertujuan untuk mengembangkan lembar kerja peserta didik elektronik berbasis proyek pengolahan limbah air cuci tangan untuk meningkatkan keterampilan berpikir kreatif siswa SMP. Metode penelitian menggunakan R&D yang mengacu pada model pengembangan 4-D yang disarankan oleh Thiagarajan. Subyek uji coba produk yaitu siswa kelas VII SMP Negeri 3 Natar sebanyak 24 siswa. Validasi ahli menunjukkan bahwa rata-rata persentase aspek kesesuaian isi dan konstruksi e-LKPD berbasis proyek sebesar 81,25% dan 100% dengan kriteria sangat tinggi. Rata-rata persentase respon guru pada aspek kesesuaian isi dan konstruksi berturut-turut sebesar 93,75% dan 100% dengan kriteria sangat tinggi. Keterlaksanaan pembelajaran menggunakan e-LKPD berbasis proyek pengolahan limbah air cuci tangan dinilai sudah berjalan baik dengan persentase keterlaksanaan sintak dan sistem sosial berturut-turut sebesar 92,86% dan 95% dengan kriteria keterlaksanaan sangat tinggi. Keefektifan penggunaan e-LKPD ditinjau dari n-gain dan effect size. Hasil penelitian menunjukkan bahwa n-gain siswa kelas eksperimen sebesar 0,71 dengan kriteria tinggi dan effect size sebesar $d = 0,94$ dengan kriteria besar. Berdasarkan hal tersebut, e-LKPD berbasis proyek pengolahan limbah air cuci tangan efektif dan mendapat respon positif dari siswa dalam meningkatkan keterampilan berpikir kreatif siswa SMP.

Kata kunci: e-LKPD berbasis proyek, limbah air cuci tangan, keterampilan berpikir kreatif

ABSTRACT**PENGEMBANGAN e-LKPD BERBASIS PROYEK PENGOLAHAN LIMBAH
AIR CUCI TANGAN UNTUK MENINGKATKAN KETERAMPILAN BERPIKIR
KREATIF SISWA SMP***By***PUTRI FACHRUNNISA**

This research aims to develop an electronic student worksheet based on a hand washing wastewater treatment project to improve junior high school students' creative thinking skills. The research method uses R&D which refers to the 4-D development model suggested by Thiagarajan. The product trial subjects were 24 class VII students at SMP Negeri 3 Natar. Expert validation shows that the average percentage of conformity aspects of the content and construction of project-based e-LKPD is 81.25% and 100% with very high criteria. The average percentage of teacher responses in the content and construction suitability aspects was 93.75% and 100% respectively with very high criteria. The implementation of learning using e-LKPD based on the hand washing waste water treatment project was assessed to have gone well with the percentage of syntax and social system implementation respectively at 92.86% and 95% with very high implementation criteria. The effectiveness of using e-LKPD is reviewed from n-gain and effect size. The research results showed that the n-gain of experimental class students was 0.71 with high criteria and the effect size was $d = 0.94$ with large criteria. Based on this, the e-LKPD based on the hand washing waste water treatment project is effective and received a positive response from students in improving the creative thinking skills of junior high school students.

Keyword: *electronic student worksheet project based learning, hand washing wastewater, creative thinking skill*