

ABSTRAK

EFEKTIVITAS LKPD BERBASIS PROYEK PENGOLAHAN LIMBAH KULIT NANAS UNTUK MELATIHKAN *CREATIVE THINKING SKILLS*

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Penelitian ini bertujuan untuk mengetahui efektivitas LKPD berbasis proyek pengolahan limbah kulit nanas dalam melatih *creative thinking skills* peserta didik pada materi energi alternatif serta mengetahui perbedaan peningkatan *creative thinking skills* berdasarkan kemampuan awal peserta didik. Penelitian ini dilaksanakan di SMAN 1 Bangunrejo dengan menggunakan metode *quasi experiment* melalui desain *one group pretest-posttest design*. Populasi dalam penelitian ini adalah seluruh peserta didik kelas X, sedangkan sampel penelitian terdiri atas kelas eksperimen 1 dan kelas eksperimen 2 yang dipilih menggunakan teknik *purposive sampling*. Instrumen penelitian berupa soal *pretest* dan *posttest* berdasarkan indikator *creative thinking skills* yang meliputi *fluency, flexibility, originality, dan elaboration*. Hasil uji *paired sample t-test* menunjukkan nilai signifikansi $< 0,05$ yang berarti terdapat peningkatan kemampuan berpikir kreatif peserta didik setelah pembelajaran. Hasil perhitungan *N-Gain* menunjukkan rata-rata peningkatan *creative thinking skills* berada pada kategori tinggi, yaitu sebesar 0,75 pada kelas eksperimen 1 dan 0,72 pada kelas eksperimen 2. Selain itu, hasil uji *One Way ANOVA* menunjukkan nilai signifikansi $> 0,05$ yang berarti tidak terdapat perbedaan peningkatan *creative thinking skills* yang signifikan berdasarkan kemampuan awal peserta didik. Dengan demikian, penggunaan LKPD berbasis proyek pengolahan limbah kulit nanas efektif dalam melatih *creative thinking skills* peserta didik serta memberikan kesempatan peningkatan yang relatif merata pada setiap kategori kemampuan awal peserta didik.

Kata Kunci: LKPD berbasis proyek, limbah kulit nanas, *creative thinking skills*, energi alternatif, kemampuan awal peserta didik.

ABSTRACT

THE EFFECTIVENESS OF PROJECT-BASED WORKSHEETS ON PINEAPPLE PEEL WASTE PROCESSING TO TRAIN STUDENTS' CREATIVE THINKING SKILLS

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This study aimed to determine the effectiveness of project-based worksheets on pineapple peel waste processing in training students' creative thinking skills on alternative energy material and to identify differences in the improvement of creative thinking skills based on students' initial abilities. This research was conducted at SMAN 1 Bangunrejo using a quasi-experimental method with a one-group pretest-posttest design. The population of this study was all tenth-grade students, while the samples consisted of experimental class 1 and experimental class 2 selected using purposive sampling technique. The research instruments were pretest and posttest questions based on the indicators of creative thinking skills, including fluency, flexibility, originality, and elaboration. The results of the paired sample t-test showed a significance value of < 0.05 , indicating an improvement in students' creative thinking skills after the learning process. The N-Gain results showed that the average improvement in creative thinking skills was in the high category, with a score of 0.75 in experimental class 1 and 0.72 in experimental class 2. In addition, the One Way ANOVA test showed a significance value of > 0.05 , indicating that there was no significant difference in the improvement of creative thinking skills based on students' initial abilities. Therefore, the use of project-based worksheets on pineapple peel waste processing was effective in training students' creative thinking skills and provided relatively equal opportunities for improvement across all categories of students' initial abilities.

Keywords: *project-based worksheets, pineapple peel waste, creative thinking skills, alternative energy, students' initial abilities.*