

**PENGARUH PEMBELAJARAN PROYEK STEM-ESD TERKAIT *RESPONSIBLE CONSUMPTION AND PRODUCTION* TERHADAP KREATIVITAS DAN AKSI SISWA**

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**PENGARUH PEMBELAJARAN PROYEK STEM-ESD TERKAIT**  
***RESPONSIBLE CONSUMPTION AND PRODUCTION* TERHADAP**  
**KREATIVITAS DAN AKSI SISWA**

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## ABSTRAK

### **Pengaruh Pembelajaran Proyek STEM-ESD terkait *Responsible Consumption and Production* terhadap Kreativitas dan Aksi Siswa**

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Rendahnya kreativitas siswa di Indonesia berdampak pada kurangnya solusi yang efektif dan kreatif dalam mengatasi permasalahan. Permasalahan lingkungan berkaitan dengan aktivitas manusia dalam produksi dan konsumsi yang tidak bertanggung jawab, dan kurangnya aksi untuk mengatasi permasalahan lingkungan. Limbah padat merupakan salah satu permasalahan yang jika dibiarkan dapat mengganggu keseimbangan lingkungan dan berdampak pada kehidupan masa depan, maka diperlukan aksi dan solusi kreatif untuk mengatasi permasalahan tersebut. Membangun kreativitas dan aksi dapat dimulai melalui pendidikan di sekolah dengan model pembelajaran yang tepat. Penelitian ini bertujuan untuk menganalisis pengaruh pembelajaran proyek STEM-ESD terkait *Responsible Consumption and Production* terhadap kreativitas dan aksi siswa. Desain penelitian *quasi experimental* yang digunakan yaitu *pre- and posttest design*, dengan teknik pengambilan sampel *convenience sampling*. Penelitian dilakukan pada salah satu sekolah menengah atas di kota Bandung, dengan sampel berjumlah 86 siswa yang terdiri dari kelompok eksperimen dan kontrol. Hasil penelitian menunjukkan terdapat pengaruh pembelajaran proyek STEM-ESD terhadap kreativitas produk kelompok siswa berdasarkan rata-rata nilai. Sementara itu, pembelajaran proyek STEM-ESD tidak memberikan pengaruh terhadap aksi siswa berdasarkan nilai signifikansi uji beda rata-rata antara kelompok eksperimen dan kontrol setelah pembelajaran. Penelitian ini dapat menjadi motivasi untuk meningkatkan kreativitas dan aksi siswa dalam menghadapi permasalahan keberlanjutan terutama terkait *Responsible Consumption and Production* melalui penerapan model pembelajaran STEM-ESD yang lebih baik.

**Kata kunci:** Kreativitas produk siswa, aksi siswa, pembelajaran STEM-ESD, *Responsible Consumption and Production*, limbah padat

## **ABSTRACT**

### **The Effect of STEM-ESD Project Learning related to Responsible Consumption and Production on Student Creativity and Action**

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The low level of student creativity in Indonesia has an impact on the lack of effective and creative solutions to overcome problems. Environmental problems are related to human activities in irresponsible production and consumption, and a lack of action to overcome environmental problems. Solid waste is a problem which, if left unchecked, can disrupt environmental balance and have an impact on future life, so action and creative solutions are needed to overcome this problem. Building creativity and action can be started through education at school with the right learning model. This research aims to analyze the influence of STEM-ESD project learning related to Responsible Consumption and Production on student creativity and action. The quasi-experimental research design used was a pre- and posttest design, with a convenience sampling technique. The research was conducted at a high school in the city of Bandung, with a sample of 86 students consisting of experimental and control groups. The research results show that there is an influence of STEM-ESD project learning on student group product creativity based on the average value. Meanwhile, STEM-ESD project learning had no influence on students' actions based on the significance value of the mean difference test between the experimental and control groups after learning. This research can be a motivation to increase student creativity and action in facing sustainability problems, especially those related to Responsible Consumption and Production through the application of a better STEM-ESD learning model.

**Keywords:** Student product creativity, student action, STEM-ESD learning, Responsible Consumption and Production, solid waste

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