

# **PROFILE OF STUDENTS' CREATIVITY AND CONCEPT UNDERSTANDING ON SCIENCE MINI-PROJECT ACTIVITY IN ENERGY CONSERVATION**

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## **ABSTRACT**

The aim of this research is to identify the profile of students' creativity and concept understanding on science mini-project activity in energy conservation. Descriptive research method is used to 7<sup>th</sup> grade students in a private international school at Padalarang as a subject of research. Students' creativity is assessed from their creative product ideas under three aspects of novelty, resolution, and elaboration and synthesis. For students' concept understanding, it is assessed from the solution given in creative product ideas based on its relevancy towards concept. Besides, students' response on science mini-project is investigated to figure out their enjoyment in classroom activity, concept understanding, and facilitation of creativity in learning. The result shows that the average creativity scoring is 85% (categorized as high). 64% of students are very high in novelty, 63% in resolution, and 42% in elaboration and synthesis. Average score of novelty in group is 85%, for resolution is 91%, and for elaboration and synthesis is 89%. Students' concept understanding shows 68% of students categorized as very high, 26% are high, and 6% are fair. Generally, students are agree that they are enjoy science mini-project activity, understood the concept given, and feel facilitated by creative learning in letting their creativity and imagination to work on project making.

*Key words:* Creativity, concept understanding, science mini-project activity.

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**PROFIL KREATIVITAS DAN PEMAHAMAN KONSEP SISWA  
DALAM KEGIATAN *SCIENCE MINI-PROJECT*  
PADA KONSEP KONSERVASI ENERGI**

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**ABSTRAK**

Tujuan dari penelitian ini adalah untuk mengidentifikasi profil kreativitas dan pemahaman konsep siswa dalam kegiatan *science mini-project* pada konsep konservasi energy. Metode deskriptif digunakan untuk meneliti subjek penelitian, yakni siswa kelas 7 di salah satu sekolah di Padalarang. Kreativitas siswa dinilai berdasarkan ide produk kreatif yang dibuat berdasarkan tiga aspek kreativitas; kebaruan, resolusi, serta elaborasi dan sintesis. Pemahaman konsep siswa dinilai berdasarkan keterkaitan solusi yang siswa berikan dalam membuat produk kreatif dengan konsep yang bersangkutan. Selain itu, respon siswa terhadap kegiatan *science mini-project*, pemahaman konsep, dan fasilitasi kreativitas dalam pembelajaran ditelaah lebih lanjut. Hasil penelitian menunjukkan bahwa rata-rata kreativitas siswa adalah 85% (dikategorikan tinggi). 64% dari siswa sangat tinggi di kebaruan, 63% di resolusi, dan 42% di elaborasi dan sintesis. Rata-rata kebaruan dalam grup yaitu 85%, resolusi 91%, dan elaborasi dan sintesis 89%. Pemahaman konsep siswa menunjukkan bahwa 68% dikategorikan sangat tinggi, 26% tinggi, dan 6% cukup. Secara umum, siswa menikmati pembelajaran dengan *science mini-project*, mampu memahami konsep yang diberikan, dan merasa difasilitasi pembelajaran kreatif dengan menggunakan imajinasinya dalam membuat produk.

*Kata kunci:* Kreatifitas, pemahaman konsep, kegiatan *science mini-project*.

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