



Development of Learner Worksheets Based on PjBL Model to Increase Creativity on Material Changes in the Form of Objects

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DOI: <https://doi.org/10.46245/ijorer.v5i5.677>

Sections Info

Article history:

Submitted: July 23, 2024

Final Revised: August 6, 2024

Accepted: August 7, 2024

Published: September 30, 2024

Keywords:

Creativity;

Development;

Learner Worksheets;

PjBL Model.



ABSTRACT

Objective: Creativity is the ability of individuals to express themselves so that they will produce new ideas and works. Creativity can be enhanced by creating innovative learning activities that encourage students to express themselves and provide creative ideas so that students' creativity continues to increase. This study aims to determine the development of PjBL-based SW, its attractiveness, and increased student creativity. **Method:** This research (R&D) uses the ADDIE model (Analyze, Design, Development, Implementation, Evaluation). **Results:** The results of this study indicate that 1) the product developed with the ADDIE model is declared "very valid." 2) PjBL-based SW obtained interesting results, and 3) PjBL-based SW has been proven to increase student creativity in a very creative category. **Novelty:** The novelty of this research is that the results of the independent thinking indicator are low when compared to other indicators, so these findings can be used as a basis for making research instruments on independent thinking for students' creativity.

INTRODUCTION

Learning activities in the classroom require superior creative and skilled human resources to produce an idea that can provide innovative work, so teaching materials are needed that can help students increase creativity (Azhari et al., 2024). Creativity is the curiosity to be able to develop inspiring ideas that exist in learners (Mardhiyah et al., 2021). Students need to be given the opportunity to express ideas and opinions of what they think (Fitriana et al., 2024). Based on the results of interviews conducted at Elementary School 1 Pandansari with teachers, they still have not implemented learning activities by linking the PjBL model using Student Worksheet (SW) due to limited knowledge in making SW, students have difficulty understanding the material on changes in the form of objects because learning still uses monotonous teaching materials, the creativity ability of students is still relatively low, and the lack of focus and attention of students due to less attractive teaching materials. This results in learners needing to be more confident and creative in bringing up their ideas. This results in students needing to be more confident and creative in expressing their ideas. Learning activities that are only teacher-centered reflect an inactive learning atmosphere so that creativity in students does not emerge because they are not given the opportunity to develop their ideas (Wasli, 2023).

Increasing creativity in learning can be done by using SW by involving students directly and methods in learning activities. SW is teaching material that contains short material, learning steps, and assignments given to students (Miranda et al., 2024). SW also guides students during learning activities (Wea et al., 2024). One learning model involving students directly is project-based learning (Puspita et al., 2023). A learning

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