



Research Article

The Developing Students' Creative Thinking Using 6E Learning based on the STEM BCG for Education for Grade-9 Students

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Abstract

The purposes of this research were to develop students' creative thinking using 6E learning based on the STEM BCG for education, and to examine students' attitudes towards the 6E learning. The target group used in the research was grade-9 students studying in the first semester of the academic year 2023, total 26 students. The research instruments were 1) innovative STEM BCG-based learning activities on the topic of ECO printing, consisting of 7 innovations with a total duration of 20 hours, 2) the creative thinking assessment for students, and 3) the questionnaire on students' attitudes toward using 6E Learning, consists of 20 items. In this research, there were two cycles of classroom action research. The statistics used in the data analysis consisted of percentages, mean, standard deviation, and comparison with the quality criteria. The results showed that the implementation of 6E Learning activities based on the STEM BCG for Education has the capability to enhance students' creative thinking, elevating it from a satisfactory level (mean 1.98) to a good level (mean 2.52). These students collaboratively engaged in the development of products from Handmade weaving, an original community product. They utilized creative thinking to design and create new products, analyzed, and solved problems, and devised marketing plans. The outcome was a suitable product that added value to the original product. 2) Students have positive attitudes towards 6E learning activities based on the STEM BCG for education at an agreed level (\bar{X} = 4.20, SD= 0.98).

Keywords: Creative thinking, STEM BCG for education, Attitude.

Thinking For Yourself 6e Instructors Manual

JA Banks



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