



A study of connection between informal and formal science education

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Abstract

This paper aims to develop a hands-on program for 20 gifted students to learn how to use the enquiry approach and skill to investigate the most feasible air balloon rock that flies more farther and stable. Compared with a so-called standard solution, National Science and Technology Museum develops an informal science education to merge into the science and technology curriculum of the formal education venue at school for the gifted students to apply the experimental variables, such as independent (or input) variable, constant (or fixed) variables and output variable to find out what the much better elements are, such as shape of tail wing, length of balloon, position of wing, that help air balloon rock to fly. It shows that informal science education can efficiently connect with the formal education venue to lead the students to learn, to discuss and find out more.

Keywords: air balloon rocket, hands-on, experiment, science museum, enquiry.