

From Mathematics Project-Based Learning to Commercial Product Using Geometer's Sketchpad (GSP)

Authors : Krongthong Khairiree

Abstract : The purpose of this research study is to explore mathematics project-based learning approach and the use of technology in the context of school mathematics in Thailand. Data of the study were collected from 6 sample secondary schools and the students were 6-14 years old. Research findings show that through mathematics project-based learning approach and the use of GSP, students were able to make mathematics learning fun and challenging. Based on the students' interviews they revealed that, with GSP, they were able to visualize and create graphical representations, which will enable them to develop their mathematical thinking skills, concepts and understanding. The students had fun in creating variety of graphs of functions which they can not do by drawing on graph paper. In addition, there are evidences to show the students' abilities in connecting mathematics to real life outside the classroom and commercial products, such as weaving, patterning of broomstick, and ceramics design.

Keywords : mathematics, project-based learning, Geometer's Sketchpad (GSP), commercial products

Conference Title : ICEIM 2014 : International Conference on Entrepreneurship and Innovation Management

Conference Location : Rome, Italy

Conference Dates : September 18-19, 2014