The effect of a problem-based hypermedia learning environment in the subject of earth science and Environment in understanding the Nature of Science and developing Creative Thinking skills

A Field study on a sample of basic - grade femal students in Jordan

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Abstract

This Study aimed at investigating The Effect of a Problem-Based Hypermedia Learning Environment in the subject of Earth Science and Environment in understanding the Nature of Science and developing Creative Thinking Skills for Mafraq Basic - Grade Female Students. This sample was assigned randomly into two groups:

- The experimental group, which consisted of (32) female students, was taught using the Problem-Based Hypermedia Learning Environment strategy
- The control group, which consisted of (32) female students, was taught through the traditional method.

To achieve the aims of the study, the researchers prepared a test for understancling the nature of science (consisting of 30items), each item consisted of four choices scale, and the creative thinking written test, consisted of six activities. In addition an existing scientific concepts test, as well as an instructional guide for teaching the Earth Science and Environment unit were used.

The results of this study revealed statistically significant differences in favor of the experimental group compared to the traditional group. The differences at ($\alpha \leq 0.05$) were on understanding the nature of science and creative thinking skills

Key words: ypermedia Environment, Problem-Based Learning Strategy,

Nature of science, Creative Thinking Skills.

For the paper in Arabic see pages (487-531)