

## **A Brain-Based Learning Theory Enrichment Program in Geography for Developing Some Analytical and Visual Thinking Skills of Fourth year primary Students**

### **Abstract:**

The aim of this research was to identify the effect of a Brain-Based learning theory enrichment program in Geography for developing some analytical and visual thinking skills of fourth year primary students. The research sample consisted of (45) fourth year primary students at Abogenshoschool for Girls. A list of analytical thinking skills, a list of visual thinking skills were developed, a Brain-Based learning theory enrichment program is built, and then measurement tools including analytical and visual thinking skills tests were prepared and applied prior and after of the sample- research- student . The results of the study showed that there were statistically significant differences at the level of (0.01) between means of scores of the study sample in the pre and post application of the analytical thinking skills test and the visual thinking skills test, in favor of the post application. The results also showed a statistically significant difference between means of scores the experimental group according to the dominant side (right - left - the two sides together) in the pre and post application of the analytical thinking test, and the visual thinking test, in favor of the post application. The results showed that there was no statistically significant difference between means of ranks of scores of the experimental group in the post application of the analytical thinking test and the of visual thinking skills test due to the dominant side of the brain (right – left- both sides together). Based on the results of the study, it was recommended that brain Based learning theory should be used in organizing content, building activities, and organizing effective learning environments. Also, geography teachers should be trained in how to activate the brain, and teach using brain-based learning strategies.

**Keywords:** Enrichment Program - Brain-Based Learning - Analytical Thinking Skills - Visual Thinking Skills.

