

The Effect of Using Computerized Educational Program in Chemical Experiments on the Achievement of Ninth Graders in Chemistry and Geology subject

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Abstract

The purpose of the present study was to investigate the effect of using computer in chemical experiments on the ninth graders achievement in chemistry and geology subject. The sample of the study consisted of (116) male and female students of the ninth graders at Al-Qaser Directorate of Education. They are divided into four groups; two groups did the experiments using a reliable computerized educational program and the others used the traditional way. A valid and tested achievement exam developed for the purpose of the study was used.

The findings of the study show that there were statistically significant differences at ($\alpha=0.05$) in the achievement of ninth graders in chemical and geology subject attributed to the method (using computer in chemical experiments). No differences were attributed to gender or to the interaction between the method and gender. In light of the study findings several recommendation were suggested.

Key words: Science education, dry lab, e. learning, science practical work.

For the paper in Arabic see pages (405-442).