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Thesis Title : A Comparative Study of Three Modes of Slide Presentation  
on Academic Achievement and Retention.  
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Academic Year : 1991

### Abstract

The purpose of this experimental research was to compare the academic achievement and retention using 3 modes of color slide presentation on the Varnishing Process, from the course C.0279 (Carpenter and Furniture). The research design was a randomized block design using a Matayom Suksa 1 entrance examination as a criterion for blocking. The sample consisted of 90 Matayom Suksa 1 students in the 1/1991 semester from Chonrajsadonamrung, selected by stratified random sampling. They were divided into 3 groups, each of which consisted of 30 students. The research instrument were color slide presentation with sound, caption and caption with sound, and academic achievement test constructed by the researcher. After the slide presentation, the achievement test were administered immediately and 14 days later to measure retention. The data was analyzed by two-way analysis of variance and multiple comparisons using Newman-Keuls technique.

The research results were as follows : the academic achievement of the groups studied from color slide presentation with caption was significantly higher than the group studying from color slide presentation with sound at 0.01 level. The academic achievement of the group studying color slide presentation with caption and sound did not significantly differ from the group studying color slide presentation with sound and the group studying color slide presentation with caption at 0.01 level. The academic retention of the students studying from 3 modes of color slide presentation were not significantly different at 0.01 level.