

THE EFFECT OF E-LEARNING IN TEACHING MATHEMATICS ON ACADEMIC ACHIEVEMENT AND ATTITUDE TOWARDS THE SUBJECT FOR GRADE 5 STUDENTS IN THE SULTANATE OF OMAN

MOHAMAD A. ALSAE'DY
KHALFAN S. ALKAHALY
MOHAMAD R. ALPRAKY
ABDULRAHMAN ALBLOSHY
HUSAIN ALKHROUSY

Sultanate Of Oman

***ABSTRACT_** This study aimed at examining the effect of e-learning in teaching mathematics on academic achievement and attitude towards the subject for grade 5 students of the basic education in the Sultanate of Oman. The study sample consisted of 50 students selected from two basic education schools in North Al-Batinah. The students were divided into two groups: The control group was taught a fraction unit of the grade 5 mathematics curriculum using a traditional teaching method whereas the experimental group was taught the same unit using a direct e-learning method. An achievement test on the subject unit and a measure of the attitude towards mathematics was developed. Their validity and reliability was verified. Equivalency of the two groups was established by comparing average scores of the end of the first semester. The attitude measure was pre- and post-administered whereas the achievement test was post-administered. Results showed statistically significant differences in academic achievement and attitude towards mathematics favoring the experimental group and statistically significant differences between the pre- and post- measures of the attitude toward the subject for the experimental group favoring the post-measure. The study suggested a number of recommendations and implications such as the importance of adopting new educational technologies in teaching mathematics for the second cycle of the basic education.*