

## 8. SINIF KUVVET VE HAREKET ÜNİTESİNDE ANİMASYON KULLANIMININ ÖĞRENCİLERİN AKADEMİK BAŞARILARINA, ÖĞRENİLEN BİLGİLERİN KALICILIĞINA VE BİLİMSEL SÜREÇ BECERİLERİNE ETKİSİ

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### Abstract

This study is carried out to determine the effect of using animation on students' academic achievement, retention of these achievement and development of scientific process skills in force and motion curriculum of science and technology in eighth grade primary school and it is also carried out to determine students' perspectives about animation. The sample of this research consists of 37 students studying in eighth grades unit primary school with computer hardware which is in the Erzurum city centre depending on the Ministry of National Education. The study is carried out by using two different teaching methods. The first of these methods is animation-supported student-centered teaching method (experimental group) and the other is student-centered teaching method (control group). There is 17 students in the experimental group and 20 students in the control group. The research is applied in the period of spring in 2010-2011 academic year. Result of the study reveals that use of animation in Science and Technology in primary schools has a statistically significant effect on students' academic achievement, retention of knowledge and scientific process skills. In addition, it is determined that the students in experimental groups have positive thoughts about the use of animation.

**Key Words:** Using of animation, science and technology education, science process skills test, animation opinion scale.