Eğitim ve Öğretim Araştırmaları Dergisi
Journal of Research in Education and Teaching
Mayıs 2017 Cilt: 6 Sayı: 2 Makale No: 31 ISSN: 2146-9199

EVALUATION OF THE EFFECTS OF BRAIN FREQUENCY TECHNOLOGY ON THE ATTITUDE OF 9TH GRADE STUDENTS TOWARDS BIOLOGY COURSE

Dr. Ayşegül Altun Tanrıverdi
Gazi Üniversitesi, Gazi Eğitim Fakültesi
Ankara
bioayse@gmail.com

Prof. Dr. Ayşe Eser Elçin
Ankara Üniversitesi, Kök Hücre Enstitüsü
Cevizlidere- Ankara
elcineser@gmail.com

Abstract
This study aims to investigate the effects of brain frequency technology on the attitude of 9th grade students towards biology courses. In order to evaluate the effects of BFT on attitude, an attitude scale was formed for assessment of affective attitude. The scale was tried on 220 students from Anatolian High School in Yenimahalle District and formed a final 36-item scale. The final scale was presented to 170 subjects from 2 Anatolian High Schools in Çankaya to reiterate the factor analyses. Total variance covered 70.111% with a 7 factor scale. Moreover the Cronbach's alpha confidence coefficient is 0.965. The second leg of the study utilizes an experimental pattern performed in an Anatolian High School in Yenimahalle District. Among 9th grade students, 40 were assigned to control and 60 to the experiment group. Control group students were presented with an attitude test, preliminary and finals tests prepared by the investigator. Following the attitude scale which was used as a preliminary test, for 21 days, the students in the experiment group were regularly subjected to BFT mp3 recordings prepared for increasing studying abilities in science subjects. By the end of this period, the attitude scale was applied as a final test. In order to analyze the effects of BFT, t-test for dependent groups and independent samples were used. According to the results of the tests students compared to the control group, the experiment group showed positive increase in attitude towards biology course.

Keywords: Brain Frequency Technology, Attitude, Biology Education, 9th grade students.