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## **The effect of teaching mitosis and meiosis subjects with computer-aided teaching materials on academic success**

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In this study, the effect of teaching mitosis and meiosis subjects using computer-aided teaching materials on academic success was investigated. The mixed method, which combines quantitative and qualitative research methods, and sequential explanatory design, one of the mixed method techniques, was used in the study. A pretest-posttest control group quasi-experimental research design was used in the study, and the data were determined using parametric and non-parametric analysis techniques. The experimental study of the research was carried out in the fall semester of the 2018-2019 academic year. 10th grade students of a private primary high school in Çankaya district of Ankara province participated in the study. While the computer-aided teaching material prepared by web design was applied to the experimental group, the control group was taught with the traditional expression method. While collecting the data in the study, "Biology Achievement Test" was prepared to measure the academic success of the students and this test was administered to the students as a pre-test and a post-test. The data obtained from the study were analyzed using the T-test in the SPSS (Statistical Package for Social Science) program. In addition, the opinions of the experimental group students about the applied computer-aided teaching material were determined. "Structured Written Interview Form" was applied to 5 students selected by random sampling method from the experimental group. The views of these students about the computer-aided teaching method were evaluated by determining themes with content analysis technique. According to the data obtained from the achievement test, there was no statistically significant difference between the computer aided teaching method and the traditional teaching method. According to the results obtained from the structured written interview form, it was understood that computer assisted education has advantages over traditional teaching for learning mitosis and meiosis. The highlights of these advantages; students' remembering the subject, envisioning abstract concepts related to the subject, preparation time for the exam, accessing the resources and repeating the subject.

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