

## THE EFFECTS OF THE USE OF GIS-BASED MATERIAL ON STUDENT'S ACADEMIC ACHIEVEMETS IN THE TEACHING OF POPULATION

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### Abstract

This study aims to investigate the impact of Geographical Information Systems on the instruction of population as a subject. The research was involved 25 students at a middle-school in the Province of Giresun in the Academic Year of 2013 and 2014. The gain “students discuss the causes and results of population distribution in Turkey by using visual materials and data” placed in the Social Studies Curriculum was taught to seventh grade social studies students by using ArcGIS 10.1 Software. The study was designed in the form of pre-interview - instructional implementation – post-interview. The quantitative data obtained were analyzed thorough the use of paired sample t-test. The qualitative data was converted as frequencies and percentages, they are interpreted. The result obtained indicated that the students' level of success significantly increased. Teachers, students and program-developers were offered a number of recommendations in parallel with the results obtained.

**Key Words:** Geographical information systems, instructional technologies, social studies, population.