

## THE EFFECT OF TEACHING ON ACADEMIC SUCCESS, PERMANENTITY AND MOTIVATION IN MATHEMATICS COURSE BY STORAGE

Pınar Ulupınar Özkuzukıran  
Gazi Üniversitesi  
[pinarozkuzukiran@gmail.com](mailto:pinarozkuzukiran@gmail.com)

Dr. Öğretim Üyesi. Yücel Kayabaşı  
Gazi Üniversitesi  
[yucelk@gazi.edu.tr](mailto:yucelk@gazi.edu.tr)

### Abstract

In this study, the effect of teaching the subject of triangles and quadrilaterals on the 5th grade mathematics lesson with the storyline method on academic success, permanence and motivation was investigated. The research was carried out with 50 students studying in the 5th grade of a public secondary school in the 2019-2020 academic year. 25 students were in the experimental group and 25 were in the control group. The lesson was taught with the Storyline Method in the experimental group. In the control group, the lesson was taught with the current method determined by the Ministry of Education. "Pre-test, Post-test Control Group Pattern", which is an experimental design, was used in the research. The implementation process of the research lasted five weeks in both groups. In the research, Mathematics Achievement Test was used to compare and measure the success levels of 5th grade students, the Persistence Achievement Test to determine the permanence of the information acquired, and the "Success Focused Motivation Test" developed by Çetin Semerci to measure their motivation for mathematics achievements. Data analysis was done in computer environment using SPSS-22.0 program. According to the results of the research, it has been revealed that the Storyline Method is more effective in increasing the academic success of the students compared to the current method being applied. In addition, it has been observed that the Storyline Method is much more effective than the current method in increasing the permanence of the information students learn. It was concluded that the motivation results applied to students for measuring math motivation were almost the same.

**Keywords:** Storyline Method, Mathematics Teaching, Academic Success, Permanence, Motivation.