

EVALUATION OF THE MATERIALS OF FIFTH GRADE MATHEMATICS COURSE BOOKS IN TERMS OF THE MATHEMATICAL THINKING COMPONENTS

Prof. Dr. Kürřat Yenilmez
Eskiřehir Osmangazi Üniversitesi
kyenilmez@ogu.edu.tr

Öğrt. Tuđba Tat
Milli Eđitim Bakanlıđı
twoba0303@gmail.com

Abstract

The activities found in textbooks, which are one of the places where our mathematical thinking is systematically transferred in our education, shed light on teaching and developing mathematical thinking. The purpose of the study was to evaluate the activities of the fifth grade mathematics textbook in terms of components of mathematical thinking; privatization, generalization, hypothesis and proof. In the study conducted by the method of document review and 37 activities in the fifth grade mathematics textbook were examined. The data obtained through 'Mathematical Thinking Skills Checklist' are analyzed with descriptive analysis technique and presented in tabular form. Examined in terms of components of mathematical thinking; 5 of the activities are for the customization component, 7 for the generalization component, 19 for the hypothetical component, and 6 for the verification component. The ratio of assumptions and proving skills to the results of the study is higher than the previous years.

Keywords: Textbook, activity, mathematical thinking.