

ABSTRACT

Fida Aulia Nazihah. (2018). *Ability to Improve Mathematical Connections and Self-Concept of Junior High School Students through Learning with REACT Strategies (Relating, Experiencing, Applying, Cooperating, Transferring)*.

This study examines the enhancement of mathematical connection abilities and self-concept of junior high school students through learning with REACT strategies (Relating, Experiencing, Applying, Cooperating, Transferring). This research was carried out because of the low mathematical connection ability and self-concept of students. In accordance with the problems formulated, the purpose of this study is (1) To determine the increase in mathematical connection capabilities students who obtain learning with REACT strategies are higher than students who obtain conventional learning; (2) To know the Self-concept of students who obtain learning with REACT strategies are better than students who obtain conventional learning models; (3) To determine the effectiveness of learning with REACT strategies in mathematical connection capabilities. This type of research uses the quasi experimental method and the design is the design of the pretest-posttest control group. The population in this study were all eighth grade students of SMP Negeri 1 Pasirjambu. The sample in this study were students of class VIII J as an experimental class and students of class VIII I as a control class. The research instrument used was a written test of mathematical connection ability and a self-concept questionnaire. Processing and analysis of data using the Mann Whitney Test and two Independent Sample t-Test with the help of SPSS 23 for Windows and Microsoft Excel software. The results of the study show that (1) Improvement of the mathematical connection ability of students who obtain learning with REACT strategies is higher than students who obtain conventional learning models; (2) Self-concept of students who obtain learning with REACT strategies is no better than students who obtain conventional learning models; (3) Effectiveness of learning with REACT strategies for strong mathematical connection capabilities. With such learning with REACT strategies can be used as an alternative for teachers in implementing learning in the classroom.

Keywords: REACT Strategy, Ability of Mathematical Connection, Self-Concept