

## ABSTRACT

Wuri Handayani. (2018). **The Influence of REACT Learning Model (*Relating, Experiencing, Applying, Cooperating, Transferring*) on enhancement Mathematical Communication Ability and Mathematical Dispositions of Junior High School Students.**

Permendikbud No. 64 of 2013 explained that one of the basic competencies that students' must possess is the ability to communicate mathematical ideas clearly. Mathematical communication ability and mathematical dispositions of junior high school students are still relatively low. One of learning model that can be used to improve mathematical communication ability and mathematical dispositions of junior high school students is the REACT model. This study aims to: 1) Know which enhancement students' mathematical communication ability is higher among students who obtain REACT learning with students who obtain conventional learning; 2) Know which students' mathematical dispositions are better between students who obtain REACT learning with students who obtain conventional learning; 3) Describe the effectiveness of REACT learning models on students' mathematical communication ability. This study uses a quasi-experimental method. The population in this study were all class VIII Pasundan 4 Junior High School Bandung. The sample of this study is students of class VIII A as an experimental group and students of class VIII B as a control group. The instrument used is a mathematical communication ability test and a mathematical disposition questionnaire. Processing and data analysis using the two Independent Sample t-Test and Shapiro Wilk test with the help of Microsoft Excel software and SPSS 20.00 software for Windows. The results showed that: 1) The enhancement students' mathematical communication ability who obtain REACT learning is higher than the enhancement mathematical communication ability of students who obtain conventional learning; 2) Mathematical dispositions of students who obtain REACT learning is better than the mathematical dispositions of students who obtain conventional learning; 3) REACT learning models are categorized as moderate effective being able to improve students' mathematical communication ability. Thus the learning model can be used as an alternative for teachers in carrying out classroom learning.

**Keywords:** REACT Learning Model, Mathematical Communication Ability, Mathematical Dispositions.