

ABSTRACT

Maulidia, K.D.A. (2018). **Improved Ability of Mathematical Communication and Mathematical Disposition of High School Students through Quantum Teaching Model.**

Permendikbud No. 81 A of 2013 explains that in the 2013 curriculum consists of 5M (Observing, Asking, Collecting Information, Associating and Communicating). Therefore mathematical communication has a very important role in the teaching and learning process. But in reality, the mathematical communication skills of high school students are relatively low. One of the causes is the lack of interest or desire of students to learn mathematics, for that is the need for the affective domain, namely the ability of mathematical disposition. One alternative learning that can improve mathematical communication skills and mathematical dispositions is the Quantum Teaching learning model. This study aims: (1) To find out whether the increase in mathematical communication skills of students who obtain the Quantum Teaching model is better than students who get ordinary learning; (2) To find out whether the mathematical disposition of students who obtain the Quantum Teaching model is better than students who get ordinary learning; (3) To find out whether there is a correlation between mathematical communication skills and mathematical dispositions of students who obtain the Quantum Teaching model. The method used in this study is quasi-experimental. The population of this study was students of class XI of SMAN 6 Bandung. The research sample is class XI MIPA 1 as the experimental class which obtained the Quantum Teaching model and class XI MIPA 3 as the control class that obtained ordinary learning. The collected data is processed using IBM SPSS 24.0 for Windows software. The results showed that: (1) Improved mathematical communication skills of students who obtained the Quantum Teaching model were better than students who obtained ordinary learning; (2) The mathematical disposition of students who obtain Quantum Teaching learning models is better than students who get ordinary learning; (3) There is a correlation between mathematical communication skills and mathematical dispositions of students who obtain Quantum Teaching learning models.

Keyword: Quantum Teaching model, ability of mathematical communication, mathematical disposition.