

ABSTRACT

Mahdalena. (2021). *Analysis of Mathematical Connection Ability and Self-efficacy of Middle School Students through the CORE Learning Model (Connecting, Organizing, Reflecting, Extending)*.

One of the mathematical abilities that students need to have is the ability to connect mathematically and one of the abilities in the affective aspect that students need to have is self-efficacy. To improve mathematical connection skills and self-efficacy, students' learning models are needed that provide opportunities for students to connect concepts in mathematics and make mathematics learning more meaningful, one of the learning models that meet these criteria is the CORE (learning model. Connecting, Organizing, Reflecting, extending). Core learning model is a learning model with a discussion method that emphasizes students' thinking skills to connect, organize, explore, manage and develop the information obtained. This study aims to: (1) determine students' mathematical connection skills through the CORE learning model (Connecting, Organizing, Reflecting, Extending); (2) knowing students' self-efficacy through the CORE learning model (Connecting, Organizing, Reflecting, Extending); (3) knowing the relationship between mathematical connection ability and self-efficacy students'. The method used in this study is a qualitative research method with the type of literature study research. The data sources used in this study are primary data and secondary data, namely data from articles related to mathematical connection abilities, self-efficacy, and the CORE learning model (Connecting, Organizing, Reflecting, Extending). The research techniques used in this research are Editing, Organizing, and Finding. Analysis of the data used in the form of inductive, interpretative, and comparative. The results showed that: (1) students' mathematical connection skills using the CORE learning model (Connecting, Organizing, Reflecting, Extending) had a good increase; (2) self-efficacy students' using the CORE learning model (Connecting, Organizing, Reflecting, Extending) experienced a good increase; (3) there is a correlation between mathematical connection ability and self-efficacy.

Keywords: *Mathematical Connection Ability, Self-efficacy, CORE Learning Model (Connecting, Organizing, Reflecting, Extending).*