

## ABSTRACT

*Liswiati Indri Novita. (2020). Analysis of Mathematical Reasoning and Self-efficacy Through Connecting, Organizing, Reflecting, Extending (CORE) Models in High School Students.*

*The mathematical skills that students need to have are mathematical reasoning skills and one of the affective aspects that students need to have is self-efficacy. To improve the reasoning and self-efficacy skills of students, a learning model that leads to a student center, one of the learning models that meets these criteria is the Connecting, Organizing, Reflecting, Extending (CORE) learning model. Core model based on konstruktivism with student center-centered learning measures This research aims to: (1) know the mathematical reasoning capabilities of high school students through connecting, organizing, reflecting, extending (CORE) learning models; (2) know the self-efficacy of high school students through connecting, organizing, reflecting, extending (CORE) learning models; (3) know the influence of self-efficacy on mathematical reasoning abilities. The method used in this study is a qualitative research method with this type of literature study research. The data sources used in this study are primary and secondary data, namely data from articles related to mathematical reasoning and self-efficacy skills through connecting, organizing, reflecting, extending (CORE) learning models in high school students. The research techniques used in this study are Editing, Organizing, and Finding and data analysis used in the form of deductive, inductive and comparative. The results showed that: (1) the mathematical critical thinking skills of high school students can be developed by connecting, organizing, reflecting, extending (CORE) learning models; (2) self-efficacy of high school students can be developed by connecting, organizing, reflecting, extending (CORE) learning models; (3) self-efficacy has a positive influence on math learning and the mathematical reasoning abilities of high school students.*

**Keywords:** *Mathematical Reasoning Ability, Self-efficacy, Connecting, Organizing, Reflecting, Extending (CORE) Models*