

ABSTRACT

Fauzi Azis Pratama. (2023). *Critical Thinking Mathematically Ability and Self-concept High School Students through CORE Model (Connecting, Organizing, Reflecting, Extending)*

The study aims to study how the achievement of mathematical critical thinking and self-concept skills in high school students can be influenced by the use of the CORE (Connecting, Organizing, Reflecting and Extending) model compared to conventional learning models. In addition, the study also aims to explore the relationship between mathematical critical thinking abilities and self-concept in students using the CORE model. This experimental research uses the type of quasi-experimental design with the design of the Nonequivalent Control Group. This research population consists of all students of Class XI in High School Pasundan 3 Bandung in the academic year 2022/2023. Research samples are selected using random sampling techniques, in which class XI IPS I is used as an experimental group that applies the CORE model, while class XI IPS II was used as a control group that uses conventional learning models. In this study, we used instruments such as test sheets of mathematical critical thinking skills and self-concepts as data collection tools. After data analysis, the results were obtained as follows: (1) the ability to think critically mathematically of students using the CORE model is better compared to students using conventional learning models. (3) There is a correlation between the ability to think critically mathematically and self-concept in students using the CORE model.

Keywords: *critical thiking skills, self-concept, model CORE (Connecting, Organizing, Reflecting, Extending).*