

## ABSTRACT

Firna Dwidina Putri. (2021). *Analysis of Reflective Thinking Ability and Self-Efficacy through Brain-based Learning (BBL) Models in High School Students*

*The ability to think reflectively and self-efficacy mathematically is one of the things that are very important for students to have in math learning. In fact, the ability to think reflectively and mathematical self-efficacy is still relatively low. One solution to develop reflective thinking ability and mathematical self-efficacy is to apply the Brain-based Learning (BBL) model. The purposes of this study are: (1) Analysis reflective thinking ability through Brain-based Learning (BBL) models in high school students; (2) Analysis self-efficacy capabilities through Brain-based Learning (BBL) models in high school students; (3) Analysis the level of self-efficacy abilities of students in junior high and high school. The research conducted in this study is library research with qualitative research approach and documentation methods. The literature study uses written data sources such as articles, thesis, and other relevant written documents related to reflective thinking ability, self-efficacy, and Brain-based Learning (BBL) models. The data analyst techniques used in this study are inductive, comparative, and historical. The results of this study suggest that: (1) The mathematical reflective thinking ability of high school students can develop through the Brain-based Learning (BBL) model; (2) The mathematical self-efficacy ability of high school students has improved through the Brain-based Learning (BBL) model; (3) The level of mathematical self-efficacy ability of students in junior high and high school belongs to the moderate category.*

**Keywords:** *Reflective Thinking Ability, Self-Efficacy, Brain-based Learning (BBL)*