

## **ABSTRACT**

Fani Nurhandini. (2021). *Analysis of Mathematical Problem Solving Ability and Self-Confidence of Middle School Students through Problem Based Learning.*

*Mathematical problem-solving abilities and self-confidence are abilities needed by students in learning. One of the efforts that can improve this ability is by using Problem Based Learning. This study has the objectives to 1) determine the ability to solve mathematical problems through Problem Based Learning in Middle School students, 2) find out the ability to solve mathematical problems through Problem Based Learning in Middle School students and 3) find out the correlation of mathematical problem solving abilities and Self-Confidence through Problem Based Learning Middle School students. The method used in this research is qualitative research with the type of literature study research. Data collection techniques used in this study are Editing, Organizing and Finding and data analysis used is deductive, inductive and interpretive. The results of this study are: 1) students' mathematical problem solving abilities increase after being given learning using problem based learning models at each level. Even the increase in mathematical problem solving ability was significantly better for students who received problem based learning compared to students who received conventional learning, 2) Students' self-confidence increased after being given learning using problem based learning at every level. In fact, the increase in self-confidence is significantly better for students who receive problem based learning compared to students who receive conventional learning and 3) Self-Confidence has a relationship and affects students' mathematical problem solving abilities. Which means that the higher the self-confidence of the students, the higher the students' mathematical problem solving abilities.*

**Key Word:** *Analysis of Mathematical Problem Solving Ability, Self-Confidence, Problem Based Learning*