# ABSTRACT

Dianing Anugerah. (2023). ***Improving Mathematical Connection Ability and Self-Regulated Learning of Junior High School Students Through Discovery Learning Model Assisted by Quizizz.***

*Mathematical connection ability and Self-Regulated Learning are aspects that need to be owned by students. However, students' mathematical connection skills and Self-Regulated Learning are still relatively low. This study aims to: (1) Knowing the increase in mathematical connection skills of students who get the Discovery Learning model assisted by Quizizz is higher than students who get conventional learning models; (2) Knowing Self-Regulated Learning of students who get the Discovery Learning model assisted by Quizizz is better than students who get conventional learning; (3) Knowing there is a correlation between mathematical connection skills and Self-Regulated Learning of students who get the Discovery Learning model assisted by Quizizz; (4) Knowing the effectiveness of the Discovery Learning model assisted by Quizizz on students' mathematical connection skills and Self-Regulated Learning. The method used for this research is a pseudo-experimental method (quasi) with a non-equivalent control group design research design, the research sample consists of two classes, namely class VIII H as an experimental class that received learning with the Discovery Learning model assisted by Quizizz and class VIII G as a control class that received a conventional learning model. The instruments used in this study were mathematical connection ability test questions and self-regulated learning. The collected data were then processed using IBM SPSS 23.0 for Windows software. The results showed that: (1) The improvement in mathematical connection skills of students who obtained the Discovery Learning learning model assisted by Quizizz was higher than students who obtained the conventional learning model; (2) Self-Regulated Learning of students who obtained the Discovery Learning learning model assisted by Quizizz was better than students who obtained conventional learning; (3) There is a correlation between mathematical connection skills and Self-Regulated Learning of students who obtained the Discovery Learning learning model assisted by Quizizz; (4) Discovery Learning model learning assisted by Quizizz is effective on students' mathematical connection skills and Self-Regulated Learning.*
***Keywords****: Discovery Learning, Quizizz, Mathematical Connections, Self-Regulated Learning.*