

## ABSTRACT

Muhammad Fadlli Sholihin. (2023). *Enhancement of Mathematical Literacy Ability and Self-regulated Learning Junior High School Students through Problem Based Instruction Model Using Google Classroom*

*The study aims to : (1) find out whether there is an increase mathematical literacy ability of students who receive Problem Based Instruction model using Google Classroom is higher than Discovery Learning model ; (2) (1) find out whether there is an increase self-regulated learning of students who receive Problem Based Instruction model using Google Classroom is better than Discovery Learning model; (3) find out whether there is a correlation between mathematical literacy ability and self regulated learning ability of students who receive Problem Based Instruction model using Google Classroom. The method used in this study is a quasi-experimental method with experimental reasearch design non-equivalent control group. The population in this study were eighth gade students of SMPN 35 Bandung year 2022/2023. The research sample consisted of 2 class. The class of 8D was obtained as the experimental class which received the Problem Based Instrucion model using Google Classroom and class of 8A was obtained as the experimental class which received the Discovery Learning model. The instrument used in this study was a description of the matematical literacy ability test and a self-recggulated learning scale. The collected data was then processed using IBM SPSS 26.0 software for Windows. The results showed that : (1) the increase in mathematical literacy ability of student who received the Problem Based Instruction model using Google Classroom was higher than student who received the Discovery Learning model; (2) the increase in self-regulated learning of student who received the Problem Based Instruction model using Google Classroom was better than student who received the Discovery Learning model; (3) there is a correlation between mathematical literacy ability and self regulated learning ability of students who receive Problem Based Instruction model using Google Classroom*

**Keywords** : *Problem Based Instruction, Google Classroom, Mathematical Literacy Ability, Self-Regualted Learning*