

## ABSTRACT

Febryana Eva Rachma Ayu 2024, *Implementation of Differentiated Learning to improve cognitive abilities of grade 3 students of SDN Bangunrejo Lor 3, Ngawi Regency*. Thesis Elementary School Teacher Education Study Program, FKIP, PGRI University of Madiun. Advisors (I) Fida Rahmantika Hadi, S.Pd, M.Pd, (II) Dr. Elly's Mersina Mursidik.

**Keywords:** Differentiated Learning, Cognitive Ability, Mathematics

Differentiation is a learning management process in the classroom that considers differences in students' abilities and learning needs that each individual has different abilities, capacities and ways of understanding the material. The advantages of differentiated learning lie in the application that is in accordance with the needs of students, by considering the level of readiness, interests and different learning materials. The purpose of this study was to determine the increase in students' cognitive abilities after the application of differentiated learning in the Mathematics subject of grade 3 SDN Bangunrejo Lor 3. The research method used is PTK (Classroom Action Research). The subjects in this study were 16 students consisting of 9 male students and 7 female students. The data collection techniques for this study were Observation, Tests, Interviews and Documents. The results of this study from the activity of cycle 1, the observation results reached good criteria with a percentage of 61.42% and in cycle 2 increased to 88.55%. Judging from the results of the study, it can be concluded that there was an increase in teacher and student activities using differentiated learning.