

ABSTRAK

PENGARUH MODEL PEMBELAJARAN *PROJECT BASED LEARNING* BERBASIS STEM TERHADAP HASIL BELAJAR MUATAN IPA PESERTA DIDIK KELAS V SEKOLAH DASAR

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Masalah dalam penelitian ini adalah rendahnya hasil belajar tematik muatan IPA peserta didik kelas V SD Negeri 1 Metro Timur. Penelitian ini bertujuan untuk mengetahui adanya pengaruh model pembelajaran *project based learning* berbasis STEM terhadap hasil belajar muatan IPA peserta didik. Metode yang digunakan dalam penelitian ini adalah *quasi experimental design* dengan desain *nonequivalent control group design*. Populasi pada penelitian ini berjumlah 38 orang peserta didik. Pengambilan sampel penelitian menggunakan teknik *non probability sampling* atau sampling jenuh dimana keseluruhan populasi dijadikan sampel penelitian yaitu 38 orang peserta didik. Teknik pengumpulan data yang digunakan yaitu teknik tes yang berupa *pretest* dan *posttest* serta teknik non tes yang berupa observasi dan studi dokumentasi. Teknik analisis data menggunakan uji regresi linier sederhana, uji N-Gain, serta uji t. Hasil perhitungan untuk menguji hipotesis dalam penelitian ini menunjukkan bahwa H_a diterima dan H_o ditolak yang berarti dapat disimpulkan bahwa terdapat pengaruh yang signifikan dari penggunaan model pembelajaran *Project Based Learning* berbasis STEM terhadap hasil belajar muatan IPA peserta didik kelas V SD Negeri 1 Metro Timur tahun pelajaran 2023/2024.

Kata kunci: hasil belajar, PjBL, STEM

ABSTRACT

THE INFLUENCE OF THE PROJECT BASED LEARNING MODEL BASED ON STEM ON THE LEARNING OUTCOMES OF SCIENCE CONTENT FOR V GRADE STUDENTS IN ELEMENTARY SCHOOL

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The problem in this study was the low thematic learning outcomes in science subjects of fifth-grade students at SD Negeri 1 Metro Timur. This research aims to determine the influence of the STEM-based project-based learning model on students' learning outcomes in science subjects. The method used in this research was a quasi-experimental design with a nonequivalent control group design. The population in this study consists of 38 students. The research sampling was conducted using non-probability sampling techniques or saturated sampling, where the entire population was used as the research sample, consisting of 38 students. The data collection techniques used are test techniques in the form of pretests and posttests, as well as non-test techniques in the form of observation and documentation study. The data analysis techniques used include simple linear regression testing, N-Gain testing, and t-testing. The results of the calculations to test the hypothesis in this study indicate that H_a was accepted and H_o was rejected, which means it can be concluded that there was a significant effect of the STEM-based Project Based Learning model on the learning outcomes of the science content for fifth-grade students at SD Negeri 1 Metro Timur for the 2023/2024 academic year.

Keywords: learning outcomes, PjBL, STEM