

ABSTRAK

**PENGARUH MODEL *PROJECT BASED LEARNING* TERHADAP
KEMAMPUAN KOMUNIKASI MATEMATIS SISWA
(Studi pada Siswa Kelas VIII SMP Negeri 7 Pesawaran Semester Genap
Tahun Pelajaran 2024/2025)**

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Penelitian eksperimen semu ini bertujuan untuk mengetahui pengaruh model *Project Based Learning* terhadap kemampuan komunikasi matematis siswa. Populasi penelitian ini adalah seluruh siswa kelas VIII SMP Negeri 7 Pesawaran tahun pelajaran 2024/2025 yang terdistribusi ke dalam 6 kelas. Sampel penelitian ini adalah siswa kelas VIII-A sebagai kelas eksperimen dan kelas VIII-B sebagai kelas kontrol, yang dipilih melalui teknik *cluster random sampling*. Desain penelitian yang digunakan adalah *pretest-posttest control group design*. Data penelitian berupa data kuantitatif kemampuan komunikasi matematis yang dikumpulkan melalui tes berbentuk uraian pada materi statistika. Analisis data menggunakan uji-t. Berdasarkan hasil analisis data diperoleh bahwa peningkatan kemampuan komunikasi matematis siswa yang mengikuti pembelajaran dengan model *Project Based Learning* lebih tinggi daripada peningkatan kemampuan komunikasi matematis siswa yang mengikuti pembelajaran konvensional. Dengan demikian, model *Project Based Learning* berpengaruh terhadap kemampuan komunikasi matematis siswa.

Kata Kunci: kemampuan komunikasi matematis, model *Project Based Learning*

ABSTRACT

THE EFFECT OF THE PROJECT-BASED LEARNING MODEL ON STUDENTS' MATHEMATICAL COMMUNICATION ABILITIES (A Study on Eighth-Grade Students of SMP Negeri 7 Pesawaran in The 2024/2025 Academic Year)

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This quasi-experimental research aimed to find out the effect of the project-based learning model on students' mathematical communication skills. The population of this research was all eighth-grade students of SMP Negeri 7 Pesawaran in the 2024/2025 academic year, which were distributed into six classes. The sample of this research was class VIII-A as the experimental class and class VIII-B as the control class, which were chosen through cluster random sampling technique. This research used a pretest-posttest control group design. The research data were quantitative data of mathematical communication skills collected through essay tests on statistics. The data analysis used the t-test. Based on the results of data analysis, it was found that the increasing of mathematical communication skills of students who took part in learning with the project-based learning model was higher than the increasing of mathematical communication skills of students who took part in conventional learning. Thus, the project-based learning model affected students' mathematical communication skills.

Keywords: *mathematical communication skills, project-based learning model*