

ABSTRAK

PENGARUH MODEL *DISCOVERY LEARNING* BERBANTUAN MEDIA DIGITAL FIGMA TERHADAP KEMAMPUAN KOMUNIKASI MATEMATIS SISWA (Studi pada Siswa Kelas VIII SMP Negeri 8 Bandar Lampung Semester Ganjil Tahun Pelajaran 2025/2026)

Oleh

FATIMAH SEFTINAR MARBELLA

Kesenjangan antara pentingnya kemampuan komunikasi matematis dan kenyataan bahwa kemampuan tersebut masih tergolong rendah pada siswa di Indonesia telah menjadi alasan utama dilaksanakannya penelitian ini. Model *Discovery Learning* berbantuan media digital Figma dipandang sebagai salah satu solusi pembelajaran yang relevan dalam mengatasi permasalahan tersebut, sekaligus sebagai sarana untuk mendukung penguasaan keterampilan abad ke-21 (4C). Penelitian ini bertujuan untuk mengetahui pengaruh model *Discovery Learning* berbantuan media digital Figma terhadap kemampuan komunikasi matematis siswa. Penelitian ini menggunakan metode kuantitatif dengan pendekatan kuasi eksperimen dan desain *pretest-posttest control group design*. Populasi penelitian mencakup 130 siswa kelas VIII SMP Negeri 8 Bandar Lampung yang terdistribusi dalam sembilan kelas. Sampel penelitian diperoleh melalui teknik *purposive sampling*, yaitu siswa kelas VIII-A sebagai kelas kontrol dan siswa kelas VIII-B sebagai kelas eksperimen. Berdasarkan analisis statistik inferensial menggunakan uji *t'* (*Independent Samples t-test* dengan varians tidak homogen), diperoleh kesimpulan bahwa peningkatan kemampuan komunikasi matematis siswa yang mengikuti pembelajaran dengan model *Discovery Learning* berbantuan media digital Figma lebih tinggi dibandingkan siswa yang mengikuti pembelajaran konvensional. Dengan demikian, model *Discovery Learning* berbantuan media digital Figma berpengaruh terhadap kemampuan komunikasi matematis siswa.

Kata Kunci: *Discovery Learning*, Figma, komunikasi matematis, pengaruh.

ABSTRACT

**THE EFFECT OF DISCOVERY LEARNING MODEL
ASSISTED BY FIGMA DIGITAL MEDIA ON STUDENTS'
MATHEMATICAL COMMUNICATION SKILLS
(A Study on Grade VIII Students of SMP Negeri 8 Bandar Lampung
in the Odd Semester of the 2025/2026 Academic Year)**

By

FATIMAH SEFTINAR MARBELLA

The gap between the importance of mathematical communication skills and the reality that such skills remain low among students in Indonesia has been the primary motivation for conducting this study. The Discovery Learning model assisted by Figma media is regarded as a relevant instructional solution to address this issue, as well as a means to support the mastery of 21st-century skills (4C). This study aimed to examine the effect of the Discovery Learning model assisted by Figma digital media on students' mathematical communication skills. This study employed a quantitative method with a quasi-experimental approach and a pretest-posttest control group design. The population consisted of 130 eighth-grade students at SMP Negeri 8 Bandar Lampung, distributed across nine classes. The sample was selected through purposive sampling, with class VIII-A serving as the control group and class VIII-B as the experimental group. Based on inferential statistical analysis using the t -test (Independent Samples t -test with non-homogeneous variances), it was concluded that the improvement in mathematical communication skills of students who received instruction through the Discovery Learning model assisted by Figma media was significantly higher than that of students who received conventional instruction. Therefore, the Discovery Learning model assisted by Figma media has a significant effect on students' mathematical communication skills.

Keywords: *Discovery Learning, effect, Figma, mathematical communication.*