

ABSTRAK

Devi Najlasari, NIM 4181111053 (2022). Penerapan Model *Guided Discovery Learning* Berbantuan Autograph Untuk Meningkatkan Kemampuan Komunikasi Matematis Siswa Kelas VIII Di SMP Muhammadiyah 61.

Tujuan dari penelitian ini adalah (1) untuk mengetahui penerapan model pembelajaran *Guided Discovery Learning* berbantuan autograph di kelas VIII-A SMP Muhammadiyah 61 Tanjung Selamat dapat meningkatkan kemampuan komunikasi matematis dan (2) untuk mengetahui peningkatan kemampuan komunikasi matematis siswa dengan menerapkan model pembelajaran *Guided Discovery Learning* berbantuan Autograph di kelas VIII-A SMP Muhammadiyah 61 Tanjung Selamat tahun ajaran 2022/2023. Subjek dalam penelitian ini adalah siswa kelas VIII-A SMP Muhammadiyah 61 Tanjung Selamat yang berjumlah 21 orang. Instrumen pengumpulan data adalah lembar observasi guru, tes kemampuan komunikasi matematis dan dokumentasi. Penelitian ini merupakan penelitian tindakan kelas (PTK) yang terdiri dari 2 siklus, masing-masing siklus terdiri dari 2 kali pertemuan. Sebelum melakukan tindakan, terlebih dahulu diberikan tes awal dan disetiap akhir siklus diberikan tes kemampuan komunikasi matematis siswa. Hasil tes kemampuan komunikasi matematis siswa mengalami peningkatan dari tes awal, siklus I, dan siklus II. Pada tes awal secara klasikal diperoleh 4 siswa (19%) tuntas dan rata-rata kemampuan tes awal ialah 41,26 dengan tingkat kemampuan kategori sangat rendah. Pada tes siklus I mengalami peningkatan secara klasikal diperoleh 10 siswa (47,62%) tuntas dan rata-rata tes kemampuan diperoleh 59,92 dengan tingkat kemampuan kategori sangat rendah. Kemudian pada tes siklus II mengalami peningkatan pula secara klasikal diperoleh 18 siswa (85,71%) tuntas dan rata-rata kemampuan diperoleh 84,92 dengan tingkat kemampuan kategori tinggi. Dengan demikian dapat disimpulkan bahwa penerapan model *guided discovery learning* berbantuan autograph untuk meningkatkan kemampuan komunikasi matematis siswa kelas VIII SMP Muhammadiyah 61 Tanjung Selamat.

Kata kunci: *Guided Discovery Learning*, Kemampuan Komunikasi Matematis, Peningkatan Kemampuan Komunikasi Matematis.

ABSTRACT

Devi Najlasari, NIM 4181111053 (2022). Application Of Guided Discovery Learning Assisted Of Autograph To Improve Mathematical Communication Ability Of Class VIII Students Of SMP Muhammadiyah 61.

The purpose of this research are (1) to find out the application of the Autograph-assisted Guided Discovery Learning model in class VIII-A SMP Muhammadiyah 61 Tanjung Selamat can improve mathematical communication skills and (2) to determine the improvement of students' mathematical communication skills by applying the Guided Discovery learning model. Autograph-assisted learning in class VIII-A of SMP Muhammadiyah 61 Tanjung Selamat for the 2022/2023 academic year. The subjects in this study were students of class VIII-A SMP Muhammadiyah 61 Tanjung Selamat which 21 people. Data collection techniques used are teacher observation sheet, mathematical communication ability tests and documentation. Researcher used type of classroom action research (CAR) which consists of 2 cycles, each cycle consists of 2 meetings. Before taking action, a preliminary test is given and at the end of each cycle a student's mathematical communication ability tests is given. The results of the students mathematical communication ability tests increased from the preliminary tests, cycle I, and cycle II. In the classical preliminary tests 4 students (19%) completed and the average preliminary tests ability was found to be 41,26 with the ability level in the very weak category. In the tests cycle I experienced an increase in classically 10 students (47,62%) completed and an average of 59,92 were obtained with the ability level in the very weak category. Then in the second cycle, there was also an increase in classically, 18 students (85,71%) were completed and the average ability was 84,92 with the ability level in the high category. Thus, it can be concluded that the application of a guided discovery learning using autograph can improve the mathematical communication ability VIII grade students of SMP Muhammadiyah 61 Tanjung Selamat.

Kata kunci: *Guided Discovery Learning*, Mathematical Communication Ability, Mathematical Communication Ability Improvement.