

ABSTRAK

Mutiara Khadijah, NIM 4181111003 (2022). Penerapan Buku Digital Melalui *Guided Discovery Learning* Untuk Meningkatkan Kemampuan Pemecahan Masalah Matematis Siswa Kelas VIII Di SMP Swasta Dharma Patra.

Tujuan dari penelitian ini adalah (1) untuk mengetahui penerapan buku digital melalui *Guided Discovery Learning* di kelas VIII SMP Swasta Dharma Patra dapat meningkatkan kemampuan pemecahan masalah matematis dan (2) untuk mengetahui peningkatan kemampuan pemecahan masalah matematis siswa dengan menerapkan buku digital melalui *Guided Discovery Learning* di kelas VIII SMP Swasta Dharma Patra tahun ajaran 2022/2023. Subjek dalam penelitian ini adalah siswa kelas VIII-A SMP Swasta Dharma Patra yang berjumlah 37 orang. Teknik pengumpulan data yang dilakukan adalah lembar observasi guru, tes kemampuan pemecahan masalah 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 pemecahan masalah matematis siswa. Hasil tes kemampuan pemecahan masalah matematis siswa mengalami peningkatan dari tes awal, siklus I, dan siklus II. Pada tes awal secara klasikal diperoleh 6 siswa (17,14%) tuntas dan rata-rata kemampuan tes awal ialah 50,91% dengan tingkat kemampuan kategori sangat rendah. Pada tes siklus I mengalami peningkatan secara klasikal diperoleh 19 siswa (51,35%) tuntas dan rata-rata tes kemampuan diperoleh 68,75% dengan tingkat kemampuan kategori rendah. Kemudian pada tes siklus II mengalami peningkatan pula secara klasikal diperoleh 36 siswa (97%) tuntas dan rata-rata kemampuan diperoleh 85% dengan tingkat kemampuan kategori tinggi. Dengan demikian dapat disimpulkan bahwa penerapan buku digital melalui *guided discovery learning* dapat meningkatkan kemampuan pemecahan masalah matematis siswa kelas VIII SMP Swasta Dharma Patra.

Kata kunci: *Guided Discovery Learning*, Kemampuan Pemecahan Masalah Matematis, Buku Digital, Peningkatan Kemampuan Pemecahan Masalah Matematis.

ABSTRACT

Mutiara Khadijah, NIM 4181111003 (2022). Application of Digital Books Through Guided Discovery Learning to Improve Mathematical Problem Solving Ability Of Class VIII Students At SMP Swasta Dharma Patra.

The purpose of this study was (1) to find out whether the application of digital books through Guided Discovery Learning in class VIII of SMP Swasta Dharma Patra could improve mathematical problem-solving ability and (2) to determine the improvement of students' mathematical problem-solving ability by applying digital books through Guided Discovery Learning in class VIII of SMP Swasta Dharma Patra for the 2022/2023 academic year. The subjects in this study were students of class VIII-A of SMP Swasta Dharma Patra, amounting to 37 people. Data collection techniques used are teacher observation sheets, mathematical problem-solving ability tests, and documentation. This research is a classroom action research (CAR) which consists of 2 cycles, each cycle consisting of 2 meetings. Before taking the action, first, an initial test is given and at the end of each cycle, a student's mathematical problem-solving ability test is given. The test results of students' mathematical problem-solving abilities have increased from the initial test, cycle I, and cycle II. In the classical initial test, 6 students (17.14%) completed and the average initial test ability was 50.91% with a very low level of ability category. In the first cycle test, there was an increase classically, 19 students (51.35%) were completed and the average ability test was 68,75% with a low level of ability. Then in the second cycle test, there was also an increase in classically obtained 36 students (97%) completed, and the average ability was obtained by 85% with a high level of ability category. Thus, it can be concluded that the application of digital books through guided discovery learning can improve the mathematical problem-solving ability of VIII students at SMP Swasta Dharma Patra.

Keywords: *Guided Discovery Learning*, *Mathematical Problem-Solving Ability*, *Digital Books*, *Mathematical Problem-Solving Ability Improvement*.