

**EFEKTIVITAS *PROBLEM BASED LEARNING* BERBANTUAN *FLIPBOOK*
DALAM MENINGKATKAN KEMAMPUAN PEMECAHAN MASALAH
SISWA PADA MATERI SISTEM REPRODUKSI KELAS XI DI SMA
NEGERI 2 SINGARAJA**

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui efektivitas *Problem Based Learning* berbantuan *Flipbook* dalam meningkatkan kemampuan pemecahan masalah siswa pada materi sistem reproduksi manusia. Jenis penelitian yaitu kuasi eksperimen dengan desain rancangan penelitian *the pretest-posttest control group design*. Sampel penelitian adalah siswa kelas XI MIPA di SMAN 2 Singaraja yang dipilih secara *random assignment*. Dari hasil *random assignment* (penempatan kelas secara acak) terpilih kelas XI MIPA 1 sebagai kelas eksperimen yaitu pembelajaran dengan *Problem Based Learning* berbantuan *Flipbook* dan kelas XI MIPA 7 sebagai kelas kontrol yaitu pembelajaran dengan *Problem Based Learning* tanpa bantuan *Flipbook*. Metode dalam penelitian ini, menggunakan tes uraian dalam bentuk wacana. Data dianalisis dengan menggunakan Indeks Efektivitas (IE) untuk mengetahui efektivitas *Problem Based Learning* berbantuan *Flipbook* dalam meningkatkan kemampuan pemecahan masalah siswa. Hasil analisis data menunjukkan nilai Indeks Efektivitas (IE) yaitu 93% dengan kategori baik. Hasil uji hipotesis menunjukkan bahwa nilai $Z_{hitung} > Z_{0,05}$ ($5,389 > 1,645$). Hal ini berarti efektivitas implementasi *Problem Based Learning* berbantuan *Flipbook* pada materi sistem reproduksi manusia lebih baik dalam meningkatkan kemampuan memecahkan masalah siswa dibandingkan dengan menggunakan *Problem Based Learning* tanpa bantuan *Flipbook*.

Kata kunci: Efektivitas, PBL, *Flipbook*, Kemampuan Pemecahan Masalah

**THE EFFECTIVENESS OF FLIPBOOK-ASSISTED PROBLEM-BASED
LEARNING IN IMPROVING STUDENTS' PROBLEM-SOLVING ABILITY IN
CLASS XI REPRODUCTIVE SYSTEM MATERIALS AT SMA NEGERI 2
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ABSTRACT

This study aims to determine the effectiveness of Flipbook-assisted Problem Based Learning in improving students' problem-solving abilities on the subject of the human reproductive system. This type of research is quasi-experimental with the pretest-posttest control group design. The research sample was students of class XI MIPA at SMAN 2 Singaraja who were selected by random assignment. From the results of the random assignment (random class placement) class XI MIPA 1 was chosen as the experimental class, namely learning with Flipbook-assisted Problem Based Learning and class XI MIPA 7 as the control class, namely learning with Problem Based Learning without Flipbook assistance. The method in this study uses a discourse-based description test. Data were analyzed using the Effectiveness Index (IE) to determine the effectiveness of Flipbook-assisted Problem Based Learning in improving students' problem-solving skills. The results of the data analysis show that the Effectiveness Index (IE) is 93% in the good category. The results of the hypothesis test show that the value of $Z_{count} > Z_{0.05}$ ($5.389 > 1.645$). This means that the effectiveness of the implementation of the Flipbook-assisted Problem Based Learning on human reproductive system material is better in improving students' problem-solving skills compared to using the Problem Based Learning without Flipbook assistance.

Keyword: *Effectiveness, PBL, Flipbook, Problem Solving Abilities*