

ABSTRAK

PENGARUH MODEL *PROBLEM-BASED LEARNING* TERINTEGRASI SSI BERBANTUAN E-LKPD TERHADAP KEMAMPUAN PEMECAHAN MASALAH PESERTA DIDIK

Oleh

NABILA AGNIA PUTRI

Penelitian ini bertujuan untuk mengetahui pengaruh model PBL terintegrasi SSI berbantuan e-LKPD terhadap kemampuan pemecahan masalah peserta didik. Penelitian ini menggunakan desain eksperimental semu dengan pola desain yaitu *Pretest-posttest Non-equivalen Control Group Design*. Sampel penelitian terdiri dari 60 peserta didik kelas VII yang diambil dari populasi berjumlah 298 peserta didik SMPN 17 Bandar Lampung melalui teknik *cluster random sampling*. Data kemampuan pemecahan masalah diperoleh melalui tes dan dianalisis menggunakan uji *Independent Sample t-Tes*, sedangkan data keterlaksanaan sintaks dan tanggapan peserta didik diambil dengan angket lalu dianalisis secara deskriptif. Hasil penelitian menunjukkan bahwa kemampuan pemecahan masalah kelas eksperimen lebih tinggi ($N\text{-Gain} = 0,64$) dari kelas kontrol ($N\text{-Gain} = 0,44$). Hasil uji *Independent Sample t-Tes* didapatkan nilai sig. (2-tailed) $0,00 < 0,05$ artinya H_1 diterima. Hasil ini juga didukung oleh uji *effect size* yang menunjukkan model PBL terintegrasi SSI berbantuan e-LKPD berpengaruh besar (1,26) terhadap kemampuan pemecahan masalah. Indikator kemampuan pemecahan masalah tertinggi pada kelas eksperimen adalah memahami masalah ($N\text{-Gain} = 0,89$) sedangkan indikator terendah yaitu melaksanakan rencana ($N\text{-Gain} = 0,29$). Hasil analisis data angket tanggapan peserta didik menunjukkan sebagian besar peserta didik setuju (84,89%) bahwa model PBL terintegrasi SSI membantu mereka dalam melatih kemampuan pemecahan masalah. Dengan demikian, penerapan model PBL terintegrasi SSI berbantuan e-LKPD berpengaruh signifikan terhadap kemampuan pemecahan masalah peserta didik.

Kata kunci: Kemampuan Pemecahan Masalah, Model *Problem-Based Learning* Terintegrasi SSI, Interaksi Makhluk Hidup dengan Lingkungan

ABSTRACT

THE EFFECT OF THE *PROBLEM-BASED LEARNING* MODEL INTEGRATED WITH SSI ASSISTED BY E-LKPD ON STUDENTS' PROBLEM-SOLVING ABILITIES

By

NABILA AGNIA PUTRI

This study aims to determine the effect of the Problem-Based Learning (PBL) model integrated with Socio-Scientific Issues (SSI) assisted by electronic Student Worksheets (e-LKPD) on students' problem-solving skills. The research employed a quasi-experimental design with a Pretest-Posttest Non-Equivalent Control Group Design. The sample consisted of 60 seventh-grade students selected from a population of 298 students at SMPN 17 Bandar Lampung using a cluster random sampling technique. Problem-solving skill data were collected through tests and analyzed using an Independent Sample t-Test, while data on the implementation of syntax and students' responses were obtained through questionnaires and analyzed descriptively. The results showed that the problem-solving skills of the experimental class (N-Gain = 0.64) were higher than those of the control class (N-Gain = 0.44). The Independent Sample t-Test results revealed a significance value of $0.00 < 0.05$, indicating that H_1 was accepted. This finding was also supported by the effect size test, which indicated that the PBL model integrated with SSI assisted by e-LKPD had a large effect (1.26) on problem-solving skills. The highest problem-solving skill indicator in the experimental class was understanding the problem (N-Gain = 0.89), while the lowest was executing the plan (N-Gain = 0.29). Questionnaire data analysis showed that most students (84.89%) agreed that the PBL model integrated with SSI helped them improve their problem-solving skills. Therefore, the application of the PBL model integrated with SSI assisted by e-LKPD has a significant effect on students' problem-solving skills.

Keywords: *Problem-Solving Ability, Socio-Scientific Issues (SSI)-Integrated Problem-Based Learning Model, Interaction of Living Organisms with Their Environment.*