ABSTRAK

PENGARUH MODEL PBL TERINTEGRASI STRATEGI *FLIPPED CLASSROOM* TERHADAP KEMAMPUAN PEMECAHAN MASALAH PESERTA DIDIK PADA MATERI PERUBAHAN IKLIM

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Penelitian ini bertujuan untuk mengetahui pengaruh model PBL terintegrasi strategi *Flipped Classroom* terhadap kemampuan pemecahan masalah peserta didik pada materi pokok Perubahan Iklim dan tanggapan peserta didik terhadap model pembelajaran yang telah dilakukan. Penelitian ini menggunakan desain eksperimental semu dengan pola desain yaitu *Pretest-Posttest Non-equivalen Control Group Design.* Populasi dalam penelitian ini yaitu peserta didik kelas X SMAN 16 Bandar Lampung semester genap yang berjumlah 320 peserta didik. Sampel penelitian ini adalah peserta didik kelas X.9 sebagai kelas eksperimen berjumlah 32 peserta didik dan kelas X.7 sebagai kelas kontrol berjumlah 32 peserta didik yang dipilih dengan teknik *cluster random sampling*. Data kemampuan pemecahan masalah diperoleh melalui tes dan dianalisis menggunakan *Independent sample t-test,* sedangkan data tanggapan peserta didik dan keterlaksanaan sintaks diambil dengan angket dan dianalisis secara deskriptif. Hasil penelitian menunjukkan bahwa kemampuan pemecahan masalah kelas eksperimen lebih tinggi (*N-Gain* 0,38) dari kelas kontrol (*N-Gain* 0,27). Hasil uji *Independent Sample t- test* didapatkan nilai sig. (2-*tailed*) 0,00 < 0,05 artinya H1 diterima. Hasil ini juga didukung oleh uji *effect size* yang menunjukkan model PBL terintegrasi strategi *Flipped Classroom* berpengaruh dengan kategori sedang (0,73) terhadap kemampuan pemecahan masalah. Indikator tertinggi yaitu memahami masalah dengan (*N-Gain* 0,40) dengan kategori "sedang" dan indikator terendah yaitu melaksanakan penyelesaian masalah sebesar (*N-Gain* 0,34). Hasil analisis data angket tanggapan peserta didik, menunjukkan hampir semua setuju (87,50%) bahwa model PBL terintegrasi strategi *Flipped Classroom* membantu mereka dalam melatih kemampuan pemecahan masalah. Dengan demikian, penerapan model PBL terintegrasi strategi *Flipped Classroom* berpengaruh signifikan terhadap kemampuan pemecahan masalah.

Kata kunci: Perubahan Iklim, kemampuan pemecahan masalah, PBL terintegrasi strategi *Flipped Classroom.*

ABSTRACT

THE EFFECT OF THE INTEGRATED PBL MODEL WITH THE *FLIPPED CLASSROOM* STRATEGY ON STUDENTS' PROBLEM SOLVING SKILLS IN THE SUBJECT OF CLIMATE CHANGE

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This study aims to determine the effect of the integrated PBL model with the Flipped Classroom strategy on students' problem-solving abilities in the subject of Climate Change and students' responses to learning. This study uses a quasi-experimental design with a pretest-posttest non-equivalent control group design. The population in this study consisted of 320 students in grade X at SMAN 16 Bandar Lampung in the even semester of the 2024/2025 academic year. The sample consisted of 32 students in class X.9 as the experimental class and 32 students in class X.7 as the control class, selected using cluster random sampling. Problem-solving ability data were obtained through tests and analyzed using an independent sample t-test, while student response data and syntax implementation were obtained through questionnaires and analyzed descriptively. The results showed that the problem-solving ability of the experimental class was higher (N-Gain 0.38) than that of the control class (N-Gain 0.27). The Independent Sample t-test yielded a sig. (2-tailed) value of 0.00 < 0.05, meaning that H1 was accepted. This result was also supported by the effect size test, which showed that the PBL model integrated with the Flipped Classroom strategy had a moderate effect (0.73) on problem-solving skills. The highest indicator is understanding problems (N-Gain 0.40) with a "moderate" category, and the lowest indicator is implementing problem solving (N-Gain 0.34). The results of the analysis of student response questionnaire data show that almost all (87.50%) agree that the PBL model integrated with the Flipped Classroom strategy helps them in training their problem-solving skills. Thus, the application of the PBL model integrated with the Flipped Classroom strategy has a significant effect on problem-solving skills.

***Keywords**: Climate Change, Problem Solving Skills, Integrated PBL Flipped Classroom strategy.*