

ABSTRAK

Mutia Safira, NIM 4213151009 (2025). Pengaruh *Problem Based Learning* Terhadap Hasil Belajar Siswa Kelas VII di SMP Negeri 8 Medan Pada Materi Pencemaran Lingkungan.

Penelitian ini bertujuan untuk mengetahui pengaruh *Problem Based Learning* (PBL) terhadap hasil belajar siswa pada materi pencemaran lingkungan. Penelitian ini merupakan jenis penelitian *Quasi Eksperimen* dengan desain *Pretest Posttest Control Group Design*, yang dilaksanakan pada semester ganjil tahun ajaran 2025/2026 di SMP Negeri 8 Medan. Populasi dalam penelitian ini adalah seluruh siswa kelas VII yang terdiri dari sepuluh kelas. Pengambilan sampel penelitian dilakukan dengan teknik *Cluster Random Sampling*, kelas VII-2 sebagai kelas eksperimen yang diberi perlakuan menggunakan Model PBL berbantuan Modul Elektronik (*E-Modul*) dan kelas VII-8 sebagai kelas kontrol yang menggunakan pembelajaran konvensional. Pengumpulan data dilakukan dengan menggunakan tes dan non tes. Instrumen yang digunakan adalah tes hasil belajar berbentuk pilihan berganda sebanyak 25 soal, yang telah divalidasi. Data diperoleh melalui pretest dan posttest, serta dianalisis menggunakan uji-t satu pihak. Hasil penelitian menunjukkan bahwa nilai rata-rata pretest dan posttest di kelas eksperimen adalah 46,125 dan 78,38. Sementara itu, kelas kontrol memperoleh nilai rata-rata pretest dan posttest sebesar 45,875 dan 70,13. Nilai rata-rata kemampuan afektif kelas eksperimen 78 dan kelas kontrol 71. Nilai rata-rata kemampuan psikomotorik kelas eksperimen 74 dan kelas kontrol 68. Hasil uji hipotesis menunjukkan bahwa pada kemampuan kognitif $t_{hitung} > t_{tabel}$ ($2 > 1,67$), pada kemampuan afektif $t_{hitung} > t_{tabel}$ ($2,32 > 1,67$), pada kemampuan psikomotorik $t_{hitung} > t_{tabel}$ ($3,14 > 1,67$), sehingga H_0 ditolak dan H_a diterima. Dengan demikian, dapat disimpulkan bahwa terdapat pengaruh yang signifikan dari penerapan model pembelajaran *Problem Based Learning* berbantuan Modul Elektronik (*E-Modul*) terhadap hasil belajar siswa kelas VII SMP Negeri 8 Medan pada materi Pencemaran Lingkungan.

Kata Kunci: *Problem Based Learning*; Hasil Belajar; Pencemaran Lingkungan

ABSTRACT

Mutia Safira, NIM 4213151009 (2025). The Effect of *Problem Based Learning* on the Learning Outcomes of Seventh Grade Students at SMP Negeri 8 Medan on the Subject of Environmental Pollution.

This study aims to determine the effect of *Problem Based Learning* on student learning outcomes in environmental pollution material. This study is a *Quasi Experimental* research with a *Pretest Posttest Control Group Design*, conducted in the odd semester of the 2025/2026 academic year at SMP Negeri 8 Medan. The population in this study consisted of all seventh-grade students, comprising ten classes. The research sample was taken using the *Random Sampling Technique*, with class VII-2 as the experimental class that was given treatment using the *Problem Based Learning* model assisted by Electronic Modules (*E-Modules*) and class VII-8 as the control class that used the conventional learning. Data collection was carried out using tests and non tests. The instrument used was a multiple-choice learning outcome test consisting of 25 questions, which had been validated. Data were obtained through pretests and posttests and analyzed using a one-tailed t-test. The results showed that the average pretest and posttest scores in the experimental class were 46.125 and 78,38. Meanwhile the control class obtained an average pretest and posttest scores of 45.875 and 70,13. The average scores of the affective ability of the experimental class was 78 and the control class was 71. The average scores of the psychomotor ability of the experimental class was 74 and the control class was 68. The hypothesis test showed that cognitive ability that $t_{\text{count}} > t_{\text{Tabel}}$ ($2 > 1.67$), in affective ability that $t_{\text{count}} > t_{\text{Tabel}}$ ($2,32 > 1.67$), in psychomotor ability that $t_{\text{count}} > t_{\text{Tabel}}$ ($3,14 > 1.67$), so H_0 was rejected and H_a was accepted. Thus, it can be concluded that there is a significant effect of the implementation of the *Problem Based Learning* model on the learning outcomes of seventh grade students at SMP Negeri 8 Medan on the subject of Environmental Pollution.

Keywords: *Problem Based Learning*; Learning Outcomes; Environmental Pollution