

ABSTRAK

Shellya Basarida Purba, NIM 4203341036 (2024). Pengaruh Model Pembelajaran *Problem Based Learning* (PBL) terhadap Hasil Belajar Biologi pada Materi Keanekaragaman Hayati Kelas X SMA Negeri 15 Medan.

Penelitian ini bertujuan untuk mengetahui hasil belajar siswa pada materi keanekaragaman hayati dengan implementasi model pembelajaran *Problem Based Learning* (PBL) dan untuk mengetahui pengaruh model pembelajaran *Problem Based Learning* (PBL) terhadap hasil belajar biologi pada materi keanekaragaman hayati kelas X di SMA Negeri 15 Medan. Jenis penelitian ini adalah *quasi eksperimen* dengan desain *pretest-posttest* dan teknik pengambilan sampel adalah *purposive sampling*. Populasi penelitian ini ialah seluruh siswa kelas X SMA Negeri 15 Medan dengan jumlah 429 orang. Sampel penelitian berjumlah 72 orang yaitu kelas X-1 sebagai kelas eksperimen dengan pembelajaran model PBL dan kelas X-3 sebagai kelas kontrol dengan metode diskusi kelompok. Data diperoleh dengan instrumen tes pilihan berganda berjumlah 30 soal yang telah divalidasi oleh validator. Dari hasil penelitian diperoleh rata-rata hasil belajar kelas eksperimen berupa *pretest* sebesar 38,13 dan *posttest* sebesar 86,67 sedangkan pada kelas kontrol diperoleh rata-rata nilai *pretest* sebesar 37,06 dan *posttest* sebesar 76,15. Berdasarkan hasil uji *t* dengan bantuan *software* SPSS 26 menunjukkan nilai *sig.* 2-tailed yang diperoleh adalah 0,000 sehingga $0,000 < 0,05$ sehingga H_a diterima. Maka dapat diambil kesimpulan bahwa H_a diterima dan H_0 ditolak. Berdasarkan hasil penelitian terdapat pengaruh model pembelajaran PBL terhadap hasil belajar biologi pada materi keanekaragaman hayati kelas X SMA Negeri 15 Medan.

Kata kunci: *Problem Based Learning*, hasil belajar, keanekaragaman hayati.



ABSTRACT

Shellya Basarida Purba, NIM 4203341036 (2024). The Effect of Problem Based Learning (PBL) Learning Model on Biology Learning Outcomes on Biodiversity Material for Class X of SMA Negeri 15 Medan.

This research aims to determine student learning outcomes in biodiversity material by implementing the Problem Based Learning (PBL) learning model and to determine the effect of the Problem Based Learning (PBL) learning model on biology learning outcomes on biodiversity material for class X at SMA Negeri 15 Medan. This type of research is a quasi-experimental study with a pretest-posttest design and the sampling technique is purposive sampling. The population of this study was all students of class X of SMA Negeri 15 Medan with a total of 429 people. The research sample was 72 people, namely class X-1 as an experimental class with PBL learning model and class X-3 as a control class with a group discussion method. Data were obtained with a multiple-choice test instrument totaling 30 questions that had been validated by the validator. From the results of the study, the average learning outcomes of the experimental class in the form of a pretest of 38.13 and a posttest of 86.67, while in the control class the average pretest value was 37.06 and a posttest of 76.15. Based on the results of the t-test with the help of SPSS 26 software, the sig. value was obtained. The 2-tailed obtained is 0.000 so that $0.000 < 0.05$ so that H_a is accepted. So it can be concluded that H_a is accepted and H_0 is rejected. Based on the results of the study, there is an influence of the PBL learning model on biology learning outcomes in the material of biodiversity of class X of SMA Negeri 15 Medan.

Keywords: Problem based learning, learning outcomes, biodiversity.

