

ABSTRAK

Ade Fitria Ningsih, NIM 4211141004 (2025). Efektivitas *Model Problem Based Learning* Terhadap Hasil Belajar Siswa Pada Materi Keanekaragaman Hayati Kelas X SMA Negeri 11 Medan Tahun Pembelajaran 2025/2026

Hasil belajar merupakan keberhasilan yang dicapai oleh siswa setelah proses pembelajaran. Namun kenyataannya dalam praktik pembelajaran di kelas, hasil belajar siswa tergolong rendah disebabkan model pembelajaran yang digunakan masih berpusat pada guru. Oleh karena itu, diperlukan model pembelajaran yang dapat mendorong siswa untuk mencapai hasil belajar yang efektif, salah satunya adalah model *Problem Based Learning*. Efektivitas adalah salah satu hasil yang ingin dicapai oleh suatu pihak dengan tujuan yang telah ditetapkan. Penelitian ini bertujuan untuk mengetahui efektivitas model *Problem Based Learning* terhadap hasil belajar siswa berdasarkan ranah kognitif dan indikator pembelajaran keanekaragaman hayati. Penelitian ini menggunakan metode penelitian kuantitatif dengan jenis penelitian *ex post facto*. Dengan menggunakan desain *One Group Pretest-Posttest*. Teknik pengumpulan sampel dilakukan dengan cara teknik *purposive sampling*. Sampel penelitian terdiri dari dua kelas yaitu kelas X-7 dan kelas X-8 dengan perlakuan yang sama yaitu menggunakan model *Problem Based Learning*, dengan total 70 siswa. Instrumen penelitian yang digunakan untuk mengukur hasil belajar siswa adalah soal tes berbentuk pilihan berganda berjumlah 20 soal. Hasil penelitian yang dihitung dengan uji independent sampel t-test dari hasil *Posttest* kelas X-7 dan X-8 sebesar 83,29. Kemudian keefektifan model *Problem Based Learning* diketahui dengan uji N-Gain yaitu memperoleh nilai sebesar 0,73. Jadi dapat disimpulkan bahwa H_a diterima, artinya model pembelajaran *Problem Based Learning* cukup efektif terhadap hasil belajar siswa pada materi keanekaragaman hayati kelas X SMA Negeri 11 Medan.

Kata Kunci: Hasil Belajar, *Problem Based Learning*, Keanekaragaman Hayati

ABSTRACT

Ade Fitria Ningsih, NIM 4211141004 (2025). The Effectiveness of the Problem Based Learning Model on Student Learning Outcomes in Biodiversity Material for Grade X of SMA Negeri 11 Medan Learning Year 2025/2026

Learning outcomes are the success achieved by students after the learning process. However, in reality, in classroom learning practices, student learning outcomes are relatively low due to the teacher-centered learning model used. Therefore, a learning model that can encourage students to achieve effective learning outcomes is needed, one of which is the Problem Based Learning model. Effectiveness is one of the results desired by a party with predetermined goals. This study aims to determine the effectiveness of the Problem Based Learning model on student learning outcomes based on the cognitive domain and learning indicators biodiversity. This study uses a quantitative research method with an ex post facto research type. By using the One Group Pretest-Posttest design. The sample collection technique was carried out by purposive sampling technique. The research sample consisted of two classes, namely class X-7 and class X-8 with the same treatment, namely using the Problem Based Learning model, with a total of 70 students. The research instrument used to measure student learning outcomes was a multiple choice test consisting of 20 questions. The results of the study calculated by the independent sample t-test from the posttest results of classes X-7 and X-8 were 83.29. The effectiveness of the Problem-Based Learning model was then determined using the N-Gain test, which obtained a value of 0.73. Therefore, it can be concluded that H_a is accepted, meaning that the Problem Based Learning model is quite effective in improving student learning outcomes in biodiversity material for grade 10 students at SMA Negeri 11 Medan.

Keywords: *Learning Outcomes, Problem Based Learning, Biodiversity*