

ABSTRAK

Khezia Ayu Lestari, NIM 4213141005 (2021). Pengaruh Pembelajaran *Problem Based Learning* terhadap Hasil Belajar Siswa pada Materi Virus di Kelas X SMA Negeri 1 Batang Kuis.

Tujuan dari penelitian ini adalah untuk mengetahui adanya pengaruh pembelajaran *Problem Based Learning* (PBL) terhadap hasil belajar siswa pada materi virus di kelas X SMA Negeri 1 Batang Kuis. Penelitian dilaksanakan pada bulan Januari–Juni 2025 di SMA Negeri 1 Batang Kuis kelas X. Penelitian ini menggunakan desain eksperimen semu (*Quasi Eksperimental*) dengan dua kelompok, yaitu kelas eksperimen dan kelas kontrol. Kelas eksperimen menggunakan model *Problem Based Learning* (PBL), sedangkan kelas kontrol menggunakan model konvensional. Data hasil belajar dikumpulkan melalui tes pretest dan posttest, kemudian dianalisis menggunakan uji *Independent Sample T-Test* untuk mengetahui perbedaan signifikan antar kelompok. Hasil penelitian menunjukkan bahwa penggunaan model *Problem Based Learning* (PBL) berpengaruh terhadap hasil belajar siswa pada materi virus di kelas X SMA Negeri 1 Batang Kuis. Rata-rata hasil belajar siswa yang diberikan perlakuan dengan model *Problem Based Learning* (PBL) lebih tinggi daripada rata-rata hasil belajar siswa yang diberikan perlakuan dengan model pembelajaran konvensional. Peningkatan hasil belajar pada kelas eksperimen mencapai nilai rata-rata 76 dengan kategori baik. Temuan ini membuktikan bahwa *Problem Based Learning* (PBL) tidak hanya mampu meningkatkan pemahaman konsep, tetapi juga mendorong keaktifan, motivasi, serta keterampilan berpikir kritis siswa dalam pembelajaran biologi.

Kata kunci : *Problem Based Learning*, hasil belajar, biologi, virus, siswa SMA

Abstract

Khezia Ayu Lestari, NIM 4213141005 (2021). The Effect of Problem Based Learning on Student Learning Outcomes in the Topic of Viruses in Grade X at SMA Negeri 1 Batang Kuis.

The purpose of this study was to determine the effect of *Problem Based Learning* (PBL) on student learning outcomes in the topic of viruses in grade X at SMA Negeri 1 Batang Kuis. The research was conducted from January to June 2025 at SMA Negeri 1 Batang Kuis. This study employed a quasi-experimental design with two groups, namely an experimental class and a control class. The experimental class was taught using the *Problem Based Learning* (PBL) model, while the control class was taught using conventional learning. Learning outcomes were collected through pretest and posttest instruments, and the data were analyzed using the *Independent Sample T-Test* to determine significant differences between the two groups. The results showed that the application of *Problem Based Learning* (PBL) had a significant effect on student learning outcomes in the topic of viruses in grade X at SMA Negeri 1 Batang Kuis. The average learning outcomes of students taught using PBL were higher than those taught using conventional methods. The increase in the experimental class reached an average score of 76, categorized as good. These findings demonstrate that *Problem Based Learning* (PBL) not only improves conceptual understanding but also encourages activeness, motivation, and critical thinking skills of students in learning biology.

Keywords: *Problem Based Learning, learning outcomes, virus, high school students.*

