

ABSTRAK

IRMA MUSTIKA 2024. **PENGARUH MODEL *PROBLEM BASED LEARNING* BERBANTUAN PERPLEXITY TERHADAP KEMAMPUAN LITERASI SAINS PADA PESERTA DIDIK DALAM PEMBELAJARAN BIOLOGI (Studi Eksperimen di Kelas X MIPA SMA Negeri 5 Tasikmalaya Tahun Ajaran 2024/2025).** Skripsi Jurusan Pendidikan Biologi. Fakultas Keguruan Dan Ilmu Pendidikan Universitas Siliwangi.

Penelitian ini bertujuan untuk mengetahui pengaruh model *problem based learning* berbantuan perplexity terhadap kemampuan literasi sains peserta didik dalam pembelajaran biologi. Metode penelitian yang digunakan *quasi experiment* dengan desain penelitian menggunakan *the matching only posttest only control group design*. Populasi dari penelitian ini adalah kelas X MIPA Negeri 5 Tasikmalaya Tahun Ajaran 2024/2025. Teknik sampel diambil secara *purposive sampling* yaitu kelas X MIPA 1 sebanyak 36 peserta didik dan X MIPA 2 sebanyak 36 peserta didik. Pengumpulan data dilakukan dengan tes pilihan ganda sebanyak 29 soal dengan menggunakan instrumen literasi sains. Teknik analisis data yang digunakan pada uji normalitas menggunakan uji *kolmogorov-Smirnov*, uji homogenitas menggunakan uji *levane* dan uji hipotesis menggunakan uji *t* independen pada *software SPSS 26 for windows* dengan hasil menunjukkan bahwa nilai yang signifikan sebesar $0,000 < 0,05$ dengan demikian H_0 di tolak artinya terdapat pengaruh model *problem based learning* berbantuan *perplexity* terhadap kemampuan literasi sains peserta didik dalam pembelajaran biologi. Maka dapat disimpulkan bahwa ada pengaruh dari penerapan model *problem based learning* berbantuan perplexity terhadap kemampuan literasi sains peserta didik dalam pembelajaran biologi di kelas X MIPA SMA Negeri 5 Tasikmalaya tahun ajaran 2024/2025.

Kata Kunci: Model *Problem Based Learning*, *Perplexity*, Literasi Sains;

ABSTRACT

IRMA MUSTIKA. 2024. *INFLUENCE PROBLEM BASED LEARNING MODEL ASSISTED BY PERPLEXITY ON SCIENCE LITERACY ABILITY OF STUDENTS IN BIOLOGICAL LEARNING* (Experiment in Class X MIPA SMA Negeri 5 Tasikmalaya Academic Year 2024/2025). Thesis, Department of Biology Education. Faculty of Teacher Training and Education, Siliwangi University.

This study aims to determine the effect of the problem based learning model assisted by perplexity on students' scientific literacy skills in biology learning. The research method used is a quasi experiment with a research design using the matching only posttest only control group design. The population of this study was class X MIPA Negeri 5 Tasikmalaya in the 2024/2025 Academic Year. The sampling technique was taken by purposive sampling, namely class X MIPA 1 with 36 students and X MIPA 2 with 36 students. Data collection was carried out with a multiple choice test of 29 questions using the science literacy instrument. The data analysis technique used in the normality test used the Kolmogorov-Smirnov test, the homogeneity test used the Levene test and the hypothesis test used the independent t test on SPSS 26 for Windows software with the results showing that the significant value was $0.000 < 0.05$ thus H_0 was rejected meaning that there was an effect of the problem based learning model assisted by perplexity on students' scientific literacy skills in biology learning. So it can be concluded that there is an influence of the application of the problem based learning model assisted by perplexity on students' scientific literacy skills in biology learning in class X MIPA of SMA Negeri 5 Tasikmalaya in the 2024/2025 academic year.

Keywords: Problem Based Learning Model, Perplexity, Science Literacy;