

ABSTRAK

Sukma Jaya Asmara 2025 **PENGARUH IMPLEMENTASI MODEL *PROBLEM BASED LEARNING* BERBANTUAN MEDIA *RABBIT POPULATION DYNAMICS* PADA MATERI EKOSISTEM TERHADAP KEMAMPUAN BERPIKIR KRITIS DAN SIKAP ILMIAH**

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Penelitian ini memiliki urgensi tinggi karena pengembangan kemampuan berpikir kritis dan sikap ilmiah siswa sebagai generasi penerus bangsa sangat penting untuk menghadapi eksploitasi sumber daya alam. Penelitian ini bertujuan untuk mengetahui pengaruh implementasi model *Problem Based Learning (PBL)* berbantuan media *Rabbit Population Dynamics* pada materi ekosistem terhadap kemampuan berpikir kritis dan sikap ilmiah siswa kelas X SMA Negeri 1 Jatiwaras tahun ajaran 2025/2026. Metode yang digunakan adalah quasi eksperimen. Penelitian ini dilaksanakan di SMA Negeri 1 Jatiwaras tahun ajaran 2025/2026 dengan populasinya adalah seluruh kelas X yang terdiri dari sepuluh kelas dengan jumlah peserta didik sebanyak 401 orang. Sampel diambil berdasarkan teknik *purposive sampling* sehingga terpilih kelas X-1 sebagai kelas eksperimen, X-2 sebagai kelas kontrol positif, dan X-3 sebagai kontrol negatif. Teknik pengumpulan data dilakukan dengan menggunakan 12 soal essay untuk berpikir kritis dan 23 pernyataan untuk sikap ilmiah. Uji hipotesis menggunakan uji anova dan menunjukkan nilai signifikansi 0,023 untuk kemampuan berpikir kritis dan 0,016 untuk sikap ilmiah, sehingga hasil penelitian menunjukkan bahwa terdapat pengaruh positif model *Problem Based Learning (PBL)* berbantuan media *Rabbit Population Dynamics* pada materi ekosistem terhadap kemampuan berpikir kritis dan sikap ilmiah siswa kelas X SMA Negeri 1 Jatiwaras. Hasil uji lanjut *least significant difference* untuk berpikir kritis menunjukkan nilai sig. kelas eksperimen dan kelas kontrol positif sebesar 0,600, nilai sig. kelas eksperimen dan kelas kontrol negatif sebesar 0,009. Uji lanjut *least significant difference* untuk sikap ilmiah peroleh nilai sig. kelas eksperimen dan kelas kontrol positif sebesar 0,027 dan nilai sig. kelas eksperimen dan kelas kontrol negatif sebesar 0,007. Penggunaan media *rabbit dynamics population* pada kelas yang menggunakan model *problem based learning* tidak memberikan pengaruh yang signifikan terhadap peningkatan kemampuan berpikir kritis siswa, namun penggunaan model *Problem Based Learning* berbantuan media *rabbit dynamics population* memberikan pengaruh yang signifikan terhadap sikap ilmiah siswa

Kata Kunci: *Problem Based Learning (PBL)*, *Media Rabbit Population Dynamics*, berpikir kritis, sikap ilmiah siswa

ABSTRACT

Sukma Jaya Asmara 2025 **THE EFFECT OF IMPLEMENTING THE PROBLEM-BASED LEARNING MODEL USING RABBIT POPULATION DYNAMICS MEDIA IN ECOSYSTEM MATERIAL ON CRITICAL THINKING SKILLS AND SCIENTIFIC ATTITUDES**

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This research has high urgency because the development of critical thinking skills and scientific attitudes of students as the next generation of the nation is very important to face the exploitation of natural resources. This study aims to determine the effect of the implementation of the Problem Based Learning (PBL) model assisted by Rabbit Population Dynamics media on ecosystem material on the critical thinking skills and scientific attitudes of class X students of SMA Negeri 1 Jatiwaras in the 2025/2026 academic year. The method used is a quasi-experimental. This research was conducted at SMA Negeri 1 Jatiwaras in the 2025/2026 academic year with the population being all class X consisting of ten classes with a total of 401 students. The sample was taken based on a purposive sampling technique so that class X-1 was selected as the experimental class, X-2 as the positive control class, and X-3 as the negative control. The data collection technique was carried out using 12 essay questions for critical thinking and 23 statements for scientific attitudes. The hypothesis test used the ANOVA test and showed a significance value of 0.023 for critical thinking skills and 0.016 for scientific attitudes, so the results of the study showed that there was a positive influence of the Problem Based Learning (PBL) model assisted by Rabbit Population Dynamics media on ecosystem material on critical thinking skills and scientific attitudes of class X students of SMA Negeri 1 Jatiwaras. The results of the further test of least significant difference for critical thinking showed a sig. value of 0.600 for the experimental class and positive control class, and a sig. value of 0.009 for the experimental class and negative control class. The further test of least significant difference for scientific attitude obtained a sig. value of 0.027 for the experimental class and positive control class, and a sig. value of 0.007 for the experimental class and negative control class. The use of rabbit dynamics population media in classes that use problem-based learning models does not have a significant effect on improving students' critical thinking skills, but the use of the Problem Based Learning model assisted by rabbit dynamics population media has a significant effect on students' scientific attitudes.

Keywords: Problem-Based Learning (PBL), Rabbit Population Dynamics media, critical thinking, scientific attitude of students