

## ABSTRAK

**Afni Nurjanah, NIM 4213341050 (2025). Pengaruh Penerapan Model Problem Based Learning (PBL) berbantuan LKPD Berbasis Masalah terhadap Hasil Belajar Siswa pada Materi Sistem Gerak Kelas XI SMA Negeri 1 Bahorok T.P 2025/2026**

Penelitian ini bertujuan untuk mengetahui pengaruh model Problem Based Learning (PBL) berbantuan LKPD berbasis masalah terhadap hasil belajar dan kemampuan kognitif peserta didik pada materi sistem gerak kelas XI SMA Negeri 1 Bahorok Tahun Pelajaran 2025/2026. Penelitian dilaksanakan pada semester ganjil dengan populasi 144 peserta didik kelas XI, dan sampel 72 peserta didik yang dipilih melalui teknik *Simple Random Sampling*. Desain penelitian menggunakan quasi eksperimen dengan *Pretest and Posttest Control Group Design*. Sampel terdiri dari kelas XI-1 sebagai kelas eksperimen yang diajar dengan PBL berbantuan LKPD berbasis masalah, serta kelas XI-3 sebagai kelas kontrol yang mendapatkan pembelajaran konvensional. Data dikumpulkan melalui tes hasil belajar dan dianalisis menggunakan *Independent Sample t-test*. Hasil menunjukkan adanya peningkatan rata-rata nilai kelas eksperimen dari 37,31% pada *Pretest* menjadi 72,78% pada *posttest* dengan ketuntasan belajar 61,11%, sedangkan kelas kontrol hanya mencapai 19,44%. Analisis kemampuan kognitif berdasarkan taksonomi Bloom memperlihatkan peningkatan signifikan pada level tinggi, yaitu menganalisis (C4) sebesar 60%, mengevaluasi (C5) sebesar 51%, dan mencipta (C6) sebesar 70%. Dengan demikian, penerapan model Problem Based Learning berbantuan LKPD berbasis masalah berpengaruh positif terhadap hasil belajar dan kemampuan kognitif peserta didik pada materi sistem gerak kelas XI SMA Negeri 1 Bahorok Tahun Pelajaran 2025/2026.

**Kata kunci:** *Problem Based Learning, LKPD berbasis masalah, hasil belajar, kemampuan kognitif.*

## ABSTRACT

**Afni Nurjanah, NIM 4213341050 (2025). The Effect of Implementing the Problem-Based Learning (PBL) Model Assisted by Problem-Based Student Worksheets (LKPD) on Students' Learning Outcomes in the Human Movement System Topic for Grade XI of SMA Negeri 1 Bahorok Academic Year 2025/2026.**

This study aims to determine the effect of the Problem Based Learning (PBL) model assisted by problem-based worksheets (LKPD) on students' learning outcomes and cognitive abilities in the human movement system material for grade XI students of SMA Negeri 1 Bahorok in the 2025/2026 academic year. The research was conducted in the odd semester with a population of 144 grade XI students, and a sample of 72 students selected using the Simple Random Sampling technique. The study employed a quasi-experimental design with a *Pretest* and Posttest Control Group Design. The sample consisted of class XI-1 as the experimental group taught using the PBL model assisted by problem-based LKPD, and class XI-3 as the control group taught using conventional methods. Data were collected through learning achievement tests and analyzed using the Independent Sample t-test. The results showed an increase in the experimental class average score from 37.31% in the *Pretest* to 72.78% in the posttest with a learning mastery rate of 61.11%, while the control class only reached 19.44%. Cognitive ability analysis based on Bloom's taxonomy indicated significant improvement at higher levels, namely analyzing (C4) by 60%, evaluating (C5) by 51%, and creating (C6) by 70%. It can be concluded that the implementation of the Problem Based Learning model assisted by problem-based LKPD has a positive effect on students' learning outcomes and cognitive abilities in the human movement system material for grade XI students of SMA Negeri 1 Bahorok in the 2025/2026 academic year.

**Keywords:** *Problem Based Learning, problem-based LKPD, learning outcomes, cognitive abilities.*