

ABSTRAK

Despriyani br Ginting, NIM 4202121009 (2024) Pengaruh Model *Problem Based Learning* Berbantuan Media *PhET* Terhadap Hasil Belajar Siswa Pada Materi Gelombang Bunyi Di Kelas XI SMA NEGERI 1 Tigapanah

Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran *Problem Based Learning* berbantuan media *PhET* pada materi gelombang bunyi di SMA NEGERI 1 Tigapanah kelas XI IPA. Subjek penelitian ini terdiri dari 68 sampel. Jenis penelitian ini merupakan eksperimen semu (*quasi eksperimental research*). Hasil penelitian pengaruh model pembelajaran *Problem Based Learning* dengan berbantuan media *PhET* berpengaruh signifikan terhadap hasil belajar siswa pada materi gelombang bunyi di kelas XI IPA SMA N 1 Tigapanah berpengaruh signifikan pada hasil belajar kognitif siswa dengan terjadinya peningkatan nilai postes lebih tinggi di kelas eksperimen di bandingkan kelas kontrol yaitu $86,62 > 71,62$ dengan uji nilai t (hipotesis) yang menunjukkan $0,000 < 0,05$, disimpulkan bahwa H_0 di tolak dan H_a di terima.

Kata kunci : Hasil Belajar, *PhET*, Problem Based Learning, Gelombang Bunyi

ABSTRACT

Despriyani br Ginting, NIM 4202121009 (2024) The Influence of the Problem Based Learning Model Assisted by PhET Media on Student Learning Outcomes in Sound Wave Material in Class XI of SMA NEGERI 1 Tigapanah

This study aims to determine the effect of the Problem Based Learning learning model assisted by PhET media on sound wave material at SMA NEGERI 1 Tigapanah class XI Science. The subjects of this research consisted of 68 samples. This type of research is a quasi-experimental research. The results of research on the influence of the Problem Based Learning learning model with the help of PhET media have a significant effect on student learning outcomes in sound wave material in class control, namely $86.62 > 71.62$ with the t value test (hypothesis) which shows $0.000 < 0.05$, it is concluded that H_0 is rejected and H_a is accepted.

Keywords: Learning Outcomes, PhET, Problem Based Learning, Sound Waves

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