ABSTRAK

Christian Tambunan, NIM 4213311025 (2025). Efektivitas Model Pembelajaran Problem Based Learning Berbantuan Platform Genially Terhadap Kemampuan Literasi Matematika

Penelitian ini bertujuan untuk mengetahui efektivitas model pembelajaran *Problem Based Learning* (PBL) berbantuan platform Genially terhadap kemampuan literasi matematika siswa kelas X SMA Negeri 3 Pematang Siantar. Metode penelitian yang digunakan adalah quasi-experiment dengan desain *One Grup pretest-posttes Design*. Populasi penelitian adalah seluruh siswa kelas X SMA Negeri 3 Pematang Siantar tahun ajaran 2024/2025, dengan sampel satu kelas yang dipilih menggunakan teknik *cluster random sampling* yaitu kelas penelitian yang memperoleh pembelajaran *problem based learning* berbantuan platform genially. Instrumen penelitian meliputi tes kemampuan literasi matematika, lembar observasi aktivitas belajar, serta angket respon siswa. Data dianalisis dengan uji normalitas, uji-t, uji *N-Gain*, analisis aktivitas belajar, dan analisis respon siswa. Hasil penelitian menunjukan bahwa rata-rata skor literasi matematika siswa kelas penelitian meningkat dari 61,17 pada pretets menjadi 83,17 pada posttest dengan N-gain sebesar 0,5723 dengan kategori cukup efektif. Uji-t menunjukan nilai signifikan sebesar 0,000 yang lebih kecil dari sig. 0,05 sehingga terlihat ada perbedaan yang signifikan antara hasil data pretest dan posttest dengan dengan ketuntasan siswa melebihi 80%. Aktivitas belajar siswa pada kelas penelitian mencapai rata-rata 69,53% dan tergolong aktif, sedangkan respon siswa terhadap pembelajaran PBL berbantuan platform genially mencapai 97,22% (kategori positif). Berdasarkan hasil penelitian menunjukkan bahwa penerapan PBL berbantuan Genially mampu meningkatkan kemampuan literasi matematika siswa secara signifikan dan terbukti efektif berdasarkan ketiga indikator efektivitas. Selain itu, penggunaan media interaktif Genially dapat meningkatkan motivasi, aktivitas belajar, serta respon positif siswa terhadap pembelajaran matematika.

Kata kunci: *Problem Based Learning, Genially, Literasi Matematika, Efektivitas Pembelajaran*

ABSTRACT

Christian Tambunan, Student ID Number 4213311025 (2025). The General Effectiveness of the Problem-Based Learning Model Assisted by the Genially Platform on Mathematical Literacy

This study aims to determine the effectiveness of the Problem Based Learning (PBL) learning model assisted by the Genially platform on the mathematical literacy skills of class X students of SMA Negeri 3 Pematang Siantar. The research method used is a quasi-experiment with a *One Grup pretest-posttes Design*. The study population was all class X students of SMA Negeri 3 Pematang Siantar in the 2024/2025 academic year, with a sample of one class selected using cluster random sampling techniques, namely the experimental class that received problem based learning assisted by the Genially platform. The research instruments included a mathematical literacy ability test, a learning activity observation sheet, and a student response questionnaire. Data were analyzed using a normality test, t-test, N-Gain test, learning activity analysis, and student response analysis. The results showed that the average mathematical literacy score of students in the experimental class increased from 61.17 in the pretest to 83.17 in the posttest with an N-gain of 0.5723 in the quite effective category. The t-test shows a significant value of 0.000 which is smaller than sig. 0.05 so that there is a significant difference between the results of the pretest and posttest data with student completeness exceeding 80%. Student learning activities in the experimental class reached an average of 69.53% and were classified as active, while student responses to PBL learning assisted by the Genially platform reached 97.22% (positive category). Based on the results of the study, it shows that the implementation of PBL assisted by Genially was able to significantly improve students' mathematical literacy skills and was proven effective based on the three effectiveness indicators. In addition, the use of Genially interactive media is increase motivation, learning activities, and positive responses from students towards mathematics learning.

Keywords: *Problem-Based Learning, Genially, Mathematical Literacy*, ***Learning Effectiveness***