

ABSTRAK

Kartika Sela. (2026). Penerapan pembelajaran matematika berbantuan LKPD dan media *Zep quiz* untuk meningkatkan kemampuan pemahaman konsep matematika siswa SMP. Skripsi. Tanjungpinang: Program Studi Pendidikan Matematika, Universitas Maritim Raja Ali Haji. Pembimbing I: Susanti, S.Pd., M.Pd. Pembimbing II: Roma Doni Azmi, S.Pd.I., M.Ed.

Kata Kunci: LKPD, *Zep quiz*, Pemahaman Konsep Matematis

Penelitian ini bertujuan untuk mengetahui apakah kemampuan pemahaman konsep matematis siswa SMP yang belajar melalui pembelajaran matematika berbantuan Lembar Kerja Peserta Didik (LKPD) dan media *Zep quiz* lebih tinggi dibandingkan siswa yang belajar melalui pembelajaran konvensional. Penelitian ini menggunakan pendekatan kuantitatif dengan jenis kuasi eksperimen (*Quasi Experimental Design*) menggunakan desain *Nonequivalent Control Group Design*. Sampel penelitian terdiri atas dua kelas, yaitu kelas eksperimen dan kelas kontrol. Teknik pengumpulan data menggunakan tes dan observasi dengan instrumen utama berupa soal tes kemampuan pemahaman konsep matematis serta instrumen pendukung berupa modul ajar, LKPD, dan media *Zep quiz*. Analisis data dilakukan melalui uji normalitas *Shapiro-Wilk*, uji homogenitas *Levene*, perhitungan *N-Gain*, dan uji *Independent Samples t-test*. Hasil penelitian menunjukkan bahwa rata-rata nilai *pretest* kelas eksperimen sebesar 44,12 dan meningkat menjadi 84,19 pada *posttest*, sedangkan rata-rata nilai *pretest* kelas kontrol sebesar 40,00 dan meningkat menjadi 62,35 pada *posttest*. Rata-rata *N-Gain* kelas eksperimen sebesar 0,71 dengan kategori tinggi, sedangkan kelas kontrol sebesar 0,38 dengan kategori sedang. Hasil uji *Independent Samples t-test* menunjukkan nilai signifikansi sebesar 0,001 ($< 0,05$), sehingga dapat disimpulkan bahwa kemampuan pemahaman konsep matematis siswa yang belajar melalui pembelajaran berbantuan LKPD dan media *Zep quiz* lebih tinggi dibandingkan siswa yang belajar melalui pembelajaran konvensional.

ABSTRACT

Kartika, Sela. (2026). Implementation of mathematics learning using student worksheets and *Zep quiz* media to improve junior high school students' understanding of mathematical concepts. Thesis. Tanjungpinang: Mathematics Education Study Program, Raja Ali Haji Maritime University. Advisor I: Susanti, S.Pd., M.Pd. Advisor II: Roma Doni Azmi, S.Pd.I., M.Ed.

Keywords: LKPD, *Zep quiz*, Mathematical Concept Understanding

This study aims to determine whether the mathematical concept understanding ability of junior high school students who learn through mathematics learning assisted by Student Worksheets (LKPD) and *Zep quiz* media is higher than students who learn through conventional learning. This study uses a quantitative approach with a quasi-experimental type (Quasi Experimental Design) using a Nonequivalent Control Group Design. The research sample consists of two classes, namely the experimental class and the control class. Data collection techniques use tests and observations with the main instrument in the form of mathematical concept understanding ability test questions and supporting instruments in the form of teaching modules, LKPD, and *Zep quiz* media. Data analysis was carried out through the Shapiro-Wilk normality test, Levene's homogeneity test, N-Gain calculation, and Independent Samples t-test. The results showed that the average *pretest* score of the experimental class was 44.12 and increased to 84.19 in the *posttest*, while the average *pretest* score of the control class was 40.00 and increased to 62.35 in the *posttest*. The average N-Gain of the experimental class was 0.71, categorized as high, while the control class was 0.38, categorized as medium. The results of the Independent Samples t-test showed a significance value of 0.001 (<0.05), so it can be concluded that the ability to understand mathematical concepts of students who learn through LKPD and *Zep quiz* media-assisted learning is higher than students who learn through conventional learning.