

ABSTRAK

PENERAPAN TEORI SOSIOKULTUR DALAM PEMBELAJARAN USAHA DAN ENERGI DENGAN METODE DEMONSTRASI PADA SISWA SMA KELAS X IPA DI DESA PUSAT DAMAI KALIMANTAN BARAT

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Penelitian ini bertujuan untuk (1) mengetahui profil *Zone of Proximal Development* (ZPD) siswa tentang Usaha dan Energi, (2) mengetahui penerapan konsep *Scaffolding* dalam pembelajaran tentang usaha dan energi, (3) mengetahui dampak dari penerapan konsep *Scaffolding* pada pembelajaran usaha dan energi setelah pembelajaran dirancang berdasarkan *Zone of Proximal Development* (ZPD).

Penelitian ini dilaksanakan pada bulan Juni-Agustus 2020. Subyek penelitian adalah siswa SMA di Desa Pusat Damai Sanggau Kalimantan Barat yang terdiri dari 7 siswa. Pengumpulan data dalam penelitian ini dilakukan dengan *pretest*, wawancara pendalaman hasil *pretest*, *posttest*, dan wawancara pendalaman hasil *posttest*.

Hasil penelitian menunjukkan bahwa ditemukan profil *Zone of Proximal Development* (ZPD) siswa yang dapat menjadi acuan peneliti dalam merancang pembelajaran dengan menerapkan konsep *scaffolding*. Siswa mengalami peningkatan pemahaman mengenai usaha dan energi berdasarkan hasil *posttest* dan wawancara pendalaman *posttest* siswa. Peningkatan pemahaman juga ditunjukkan berdasarkan hasil analisis statistika dengan menggunakan SPSS. Berdasarkan hasil analisis T-Test untuk dua kelompok independen diperoleh hasil $t = -12,00$. $p = .000 < 0,05$, maka hasilnya signifikan.

Kata kunci: Teori Sosiokultural, *Zone of Proximal Development*, *scaffolding*.

ABSTRACT***THE IMPLEMENTATION OF SOCIOCULTURAL THEORY IN THE STUDY OF WORK AND ENERGY WITH STUDENT DEMONSTRATION METHOD CLASS X IPA HIGH SCHOOL STUDENTS IN PUSAT DAMAI WEST KALIMANTAN***

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This research aims to (1) reveal the profil of student Zone Proximal Development (ZPD) on work and energy materials, (2) knowing the implementation of scaffolding concept to the learning of work and energy materials, (3) knowing the impact of the implementation of scaffolding concept on work and energy materials after the learning activity is designed based on student Zone Proximal Development (ZPD).

The study was conducted in June-August 2020. The subjects of this study were high school students in the village of the Pusat Damai Sanggau, West Kalimantan, which consisted of the 7 students. Data collection in this study is conducted with pretest, in-depth interview about pretest, posttest and in-depth interview about the posttest.

The results showed that the discovery of the Zone Proximal Development (ZPD) profil of students was used as a reference for researchers in designing learning by applying the concept of scaffolding. Students experience increased understanding of work and energy based on the results of posttest and posttest in-depth interviews students. Improved understanding was also shown based on the results of statistical analysis using SPSS. Based on the results of the T-Test analysis for two independent group the results obtained $t = -12,00$. $p = .000 < 0,05$, the results are significant.

Keywords: Sociocultural theory, Zone Proximal Development, scaffolding.