

ABSTRAK

Rizky Manurung, NIM 4153141050 (2015). Efektivitas Lembar Kerja Peserta Didik Berbasis Pendekatan STEM (*Sains, Technology, Engeneering, And Mathematics*) Terhadap Hasil Belajar Siswa pada Materi Animalia Kelas X MIA Di SMA Negeri 8 Medan Tahun Pembelajaran 2021/2022.

Penelitian ini bertujuan untuk mengetahui efektivitas penggunaan lembar kerja peserta didik dengan berbasis STEM (*Sains, Technology, Engeneering, And Mathematics*). Penelitian ini dilaksanakan pada bulan Februari-April 2022 di SMA Negeri 8 Medan. Jenis penelitian ini adalah *Quasi Experimental Design* dalam bentuk *Nonequivalent Pre-Post Control Group Design*. Populasi penelitian ini adalah siswa kelas X MIA 6 dan X MIA 7 dengan jumlah 72 siswa. Pengambilan sampel dilakukan dengan teknik *Nonequivalent Control Group Design*. Instrumen yang digunakan adalah Lembar Kerja Peserta Didik yang telah divalidasi sebelumnya, dan lembar penilaian. Hasil belajar pada materi Kingdom Animalia yang menggunakan LKPD STEM dan Buku Paket dapat dikatakan cukup efektif. Namun berdasarkan hasil nilai rata-rata *n-gain* skor, terdapat perbandingan cukup signifikan yaitu, LKPD STEM sebesar 0,75, sedangkan pada Buku Paket sebesar 0,57. Berdasarkan perbandingan nilai skor yang cukup signifikan. Penggunaan LKPD STEM lebih efektif terhadap hasil belajar siswa.

Kata Kunci: Efektivitas, LKPD, STEM, Hasil Belajar.



ABSTRACT

Rizky Manurung, NIM 4153141050 (2015). The Effectiveness of Student Worksheets Based on the STEM Approach (Science, Technology, Engineering, And Mathematics) on Student Learning Outcomes on Animalia Class X MIA at SMA Negeri 8 Medan in the 2021/2022 Academic Year.

This study aims to determine the effectiveness of using student worksheets based on STEM (Science, Technology, Engineering, And Mathematics). This research was conducted in February-April 2022 at SMA Negeri 8 Medan. The type of this research is *Quasi Experimental Design* in the form of *Nonequivalent Pre-Post Control Group Design*. The population of this study were students of class X MIA 6 and X MIA 7 with a total of 72 students. Sampling was carried out using the *Nonequivalent Control Group Design* technique. The instruments used are Student Worksheets that have been previously validated, and assessment sheets. Learning outcomes on Kingdom Animalia material using STEM LKPD and Package Books can be said to be quite effective. However, based on the results of the average n-gain score, there is a significant comparison, namely, the STEM LKPD is 0.75, while in the Package Book it is 0.57. Based on the comparison of the scores that are quite significant. The use of STEM LKPD is more effective on student learning outcomes.

Keywords: Effectiveness, LKPD, STEM, Learning Outcomes.

