

ABSTRAK

Pengembangan Lembar Kerja Peserta Didik Berbasis *Project Based*

***Learning* Untuk Meningkatkan Hasil Belajar Siswa Di SMAS**

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Model pembelajaran *Project Based Learning* (PjBL) merupakan teknik yang memberikan inovasi dalam seni pengajaran. Peran guru dalam metode ini sebagai fasilitator yang memberikan fasilitas terhadap peserta didik ketika mengajukan pertanyaan mengenai teori serta memberikan motivasi terhadap peserta didik supaya aktif dalam pengajaran. Berdasarkan analisis permasalahan dan kebutuhan peserta didik, penulis berniat mengembangkan LKPD menggunakan aplikasi canva untuk meningkatkan hasil belajar peserta didik dalam menciptakan susasana belajar yang aktif, menarik, dan inovatif serta mampu memecahkan permasalahan soal matematika pada materi matriks. Jenis penelitian ini adalah pengembangan model 4D Thiagarajan (*define, design, develop, disseminate*). Sampel dalam penelitian ini adalah 36 siswa kelas XI – MIPA 1 SMAS Nurul Amaliyah Tanjung Morawa. Teknik yang digunakan dalam pengumpulan data adalah menggunakan lembar validasi angket, instrumen kepraktisan dan instrumen tes. Dari hasil uji coba diperoleh hasil LKPD telah memenuhi kriteria sangat valid berdasarkan penilaian ahli sebesar 92,52%. LKPD telah memenuhi kriteria sangat praktis berdasarkan angket respon siswa sebesar 87,6%. LKPD memenuhi kriteria sangat efektif dari hasil belajar siswa sebesar 87,9% dengan peningkatan gain sebesar 0,7639 dalam kategori tinggi. Dapat disimpulkan bahwa LKPD berbasis *Project Based Learning* telah valid, praktis, dan efektif dalam meningkatkan hasil belajar siswa.

Kata Kunci : *Project Based Learning*, Lembar Kerja Peserta Didik, dan Hasil Belajar

ABSTRACT

Development of a Student Worksheet Based on Project-Based Learning to Improve Student Learning Outcomes at SMAS

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The *Project Based Learning* (PjBL) model is a teaching technique that introduces innovation in the art of instruction. In this method, the teacher acts as a facilitator who provides support to students when they ask questions related to theory and also motivates them to be active participants in the learning process. Based on the analysis of students' problems and needs, the author intends to develop a Student Worksheet (LKPD) using the Canva application to improve students' learning outcomes by creating an active, engaging, and innovative learning environment that also enables students to solve mathematical problems related to matrix material. This type of research is a development study using the 4D model by Thiagarajan (Define, Design, Develop, Disseminate). The sample of this study consisted of 36 students from class XI – MIPA 1 at SMAS Nurul Amaliyah Tanjung Morawa. The data collection techniques used include validation questionnaires, practicality instruments, and test instruments. From the trial results, it was found that the LKPD met the criteria for being highly valid with an expert assessment score of 92.52%. It also met the criteria for being highly practical based on the student response questionnaire, which scored 87.6%. Furthermore, the LKPD met the criteria for being highly effective, as shown by student learning outcomes of 87.9% with a gain score of 0.7639, which falls into the high category. It can be concluded that the *Project Based Learning-based* LKPD is valid, practical, and effective in improving student learning outcomes.

Keywords: *Project Based Learning*, Student Worksheet, and Learning Outcomes

