

**PENGEMBANGAN LEMBAR KERJA PESERTA DIDIK IPA SMP
BERBASIS *PROBLEM BASED LEARNING* PADA MATERI USAHA DAN
PESAWAT SEDERHANA**

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ABSTRAK

Penelitian ini bertujuan mendeskripsikan dan menjelaskan karakteristik, tingkat kevalidan, tingkat kepraktisan serta tingkat keterbacaan Lembar Kerja Peserta Didik IPA SMP berbasis *Problem Based Learning* Pada Materi Usaha dan Pesawat Sederhana. Jenis penelitian ini yaitu penelitian dan pengembangan (*Research and Development*) dengan menggunakan model *four-D* yang terdiri atas tahap *Define, Design, Develop, and Disseminate*. Pada penelitian ini tahapan pengembangan hanya sampai pada tahap *Develop*. Pengumpulan data penelitian dengan menggunakan teknik wawancara, penilaian lembar validasi dan penyebaran angket kepada subjek penelitian. Hasil data kualitatif yang diperoleh dianalisis secara deskriptif dan hasil data kuantitatif dianalisis melalui Uji Gregory dan perhitungan skor rata-rata. Karakteristik LKPD IPA berbasis *Problem Based Learning* yaitu sebagai berikut. (1) LKPD IPA dapat mengarahkan peserta didik untuk menemukan permasalahan berdasarkan fenomena yang disajikan dan dapat membuat pertanyaan berdasarkan masalah yang ditemukan. (2) Penyajian fenomena dilengkapi dengan gambar dan cerita menarik yang relevan dengan kehidupan sehari-hari. (3) LKPD tidak memuat prosedur kerja tetapi disusun oleh peserta didik berdasarkan contoh gambar dan tabel pengamatan. Hasil penelitian menunjukkan bahwa LKPD IPA berbasis *Problem Based Learning* memiliki tingkat validitas sangat tinggi dengan koefisien sebesar 0,97. Hasil uji kepraktisan berdasarkan penilaian guru menunjukkan skor rata-rata sebesar 4,6 dengan kategori sangat praktis sedangkan tingkat keterbacaan LKPD IPA berbasis *Problem Based Learning* yang dilakukan peserta didik termasuk dalam kategori sangat terbaca dengan skor rata-rata sebesar 4,3. Berdasarkan data hasil penelitian dapat disimpulkan bahwa LKPD IPA berbasis *Problem Based Learning* yang telah dikembangkan sudah layak untuk diuji ke tahap pengembangan (*Develop*) selanjutnya.

Kata kunci: Pengembangan, Lembar Kerja Peserta Didik, *Problem Based Learning*.

**DEVELOPMENT OF PROBLEM BASED LEARNING WORKSHEETS
FOR SMP IPA STUDENTS ON BUSINESS MATERIALS AND SIMPLE
AIRCRAFT**

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ABSTRACT

This research aims to describe and explain the characteristics, level of validity, level of practicality and level of readability of the junior's science student worksheet based on Problem Based Learning at matter Venture and Simple Planes. This type of research was research and development used a four-D model consisted of Define, Design, Develop, and Disseminate stage. In this research the development stage only reaches the Develop stage. The collection of research data used interview techniques, validation sheet assessment and questionnaire deployments to research subjects. The results of the qualitative data obtained was analyzed descriptively and the results of and quantitative data was analyzed through the Gregory test and the calculation of the average score. The characteristics science student worksheets based on Problem Based Learning are is follows. (1) Science student worksheets can direct students to find problems based on the phenomena presented and can make questions based on the problem found. (2) The presentation of phenomena is complemented by interesting image and stories that are relevant to everyday life. (3) Student worksheets does not contain work procedure but is compiled by learners based on sample drawings and observation tables. The results show that the development of Problem Based Learning-based science student worksheets have level of very high validity with a coefficient of 0,97. The result of the practicality test based on the teacher's assessment showed an average score of 4.6 with a very practical category. The level of readability of science student worksheets based on Problem Based Learning conducted students is included in the category very legible with an average score of 4.3. Based on the data of research results can be conclude that science student worksheets based on Problem Based Learning that have been develop is worth testing to the next stage of development (Develop).

Keywords: *Development Research, Student Worksheet, Problem Based Learning.*