

**PENGEMBANGAN LKPD IPA BERBASIS *PROBLEM BASED LEARNING*
TERINTEGRASI ETNOSAINS PADA MATERI GETARAN,
GELOMBANG, BUNYI KELAS VIII SMP**

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ABSTRAK

Penelitian ini bertujuan mendeskripsikan dan menganalisis (1) karakteristik, (2) validitas, (3) kepraktisan, (4) dan keterbacaan LKPD IPA berbasis *problem based learning* terintegrasi etnosains pada materi getaran, gelombang, bunyi bagi siswa kelas VIII SMP. Jenis penelitian ini merupakan penelitian pengembangan (R&D) dengan menggunakan model pengembangan ADDIE dan dibatasi pada tahap *develop*. Subjek penelitian ini meliputi subjek uji validitas yang terdiri atas 2 orang ahli Pendidikan IPA, subjek uji kepraktisan terdiri atas 6 orang guru IPA, dan subjek uji keterbacaan terdiri atas 10 orang peserta didik kelas VIII SMP Negeri 2 Singaraja. Metode dan instrumen pengumpulan data yang digunakan dalam penelitian ini, yaitu observasi, studi dokumentasi dan instrumen angket. Data hasil penelitian dianalisis secara deskriptif. Hasil uji validitas LKPD IPA mendapatkan skor rata-rata 1,00 dengan kualifikasi sangat valid. Hasil uji kepraktisan mendapatkan skor rata-rata 3,52 dengan kualifikasi sangat praktis, dan uji keterbacaan mendapatkan skor rata-rata 3,7 dengan kualifikasi sangat terbaca. Data yang diperoleh berupa data hasil karakteristik produk, uji validitas, kepraktisan, dan keterbacaan LKPD IPA. Karakteristik LKPD IPA ini yaitu setiap kegiatan memuat sintaks model *problem based learning* dan pada fenomena memuat etnosains alat musik. Berdasarkan hasil uji validitas, kepraktisan, dan keterbacaan, LKPD IPA dinyatakan valid, praktis, dan terbaca sehingga dapat dilanjutkan pada tahap berikutnya yaitu uji keefektifan produk.

Kata Kunci: LKPD, *Problem Based Learning*, Etnosains

**DEVELOPMENT OF PROBLEM BASED LEARNING LKPD
INTEGRATED WITH ETHNOSCIENCE IN THE SUBJECT OF
VIBRATION, WAVES, SOUND IN EIGHT GRADE SMP**

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ABSTRACT

This study was aimed to described and analyzed (1) the characteristics, (2) validity, (3) practicality, (4) and readability of problem-based learning LKPD integrated with ethnoscience in the subject of vibration, waves, sound in eight grade SMP. This type of research was development research (R&D) used the ADDIE development model and limited to the development stage. The subjects of this study included validity test consisting of 2 lecturers, practicality test for educators consisting of 6 science teachers, and readability test consisting of 10 students in eight grade SMPN 2 Singaraja. Data collection was carried out used observation, documentation study, and questionnaire instrument. Research data were analyzed descriptively. LKPD Science validity test results got an average score of 1.00 with a very valid qualification. Practicality test got an average score of 3.52 with a very practical qualification, and the readability test got an average score of 3.7 with a very legible qualification. The data obtained was in the form of product characteristic result data, validation test, practicality, and readability of LKPD Science. The characteristics of this LKPD were based on a problem based learning model integrated with ethnoscience which consisted of three activities containing ethnoscience phenomena of musical instruments. Based on the result of validity and practicality test of LKPD Science based on problem based learning integrates with ethnoscience, it is declares valid, practical, and legible so it could process to the next stage, namely product effectiveness testing.

Keywords: *LKPD, problem based learning, ethnoscience*