

**PENGEMBANGAN LEMBAR KERJA PESERTA DIDIK (LKPD)
OUTDOOR LEARNING SYSTEM BERBASIS PROJECT BASED
LEARNING UNTUK MENINGKATKAN KETERAMPILAN BERPIKIR
KRITIS TEMA “KERUSAKAN LINGKUNGAN” PADA
PEMBELAJARAN IPA**

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ABSTRAK

Penelitian ini bertujuan untuk mengembangkan LKPD *Outdoor Learning System* berbasis *Project Based Learning* tema “Kerusakan Lingkungan” yang memenuhi kelayakan sebagai bahan ajar berdasarkan penilaian para validator dan mengetahui peningkatan keterampilan berpikir kritis serta respon peserta didik setelah menggunakan LKPD hasil pengembangan.

Metode penelitian yang digunakan adalah *Research and Development* (R&D) yang terdiri dari 4 tahap penelitian dan pengembangan, yaitu: 1) *Define*, meliputi: analisis awal, analisis peserta didik, analisis tugas, analisis konsep, dan perumusan tujuan pembelajaran; 2) *Design*, meliputi: penyusunan tes kriteria acuan, pemilihan media, pemilihan format, penyusunan rancangan awal; 3) *Develop*, meliputi: penilaian ahli, uji coba lapangan; 4) *Disseminate*, yaitu: penyebaran produk akhir secara terbatas pada guru IPA di SMP N 5 Banguntapan dan guru IPA SMP N 1 Banguntapan. Instrumen yang digunakan pada penelitian ini meliputi lembar validasi LKPD, soal *pretest* dan *posttest*, lembar observasi keterampilan berpikir kritis, angket respon peserta didik terhadap LKPD, dan lembar observasi keterlaksanaan pembelajaran dengan pendekatan *Project Based Learning*. Teknik analisis data yang digunakan adalah analisis deskriptif kelayakan LKPD berdasarkan skor dan saran penilaian dari validator, analisis *gain score* peningkatan keterampilan berpikir kritis peserta didik, analisis peningkatan persentase keterampilan berpikir kritis peserta didik tiap pertemuan, analisis respon peserta didik terhadap LKPD berdasarkan skor dan saran penilaian angket respon, serta analisis persentase keterlaksanaan pembelajaran dengan pendekatan *Project Based Learning*.

Hasil penelitian mendapatkan bahwa LKPD *Outdoor Learning System* berbasis *Project Based Learning* dinyatakan layak sebagai bahan ajar dengan kategori sangat baik. LKPD hasil pengembangan juga efektif untuk meningkatkan keterampilan berpikir kritis peserta didik dengan kategori sedang dan peserta didik juga memberikan respon yang positif terhadap LKPD hasil pengembangan.

Kata kunci: Keterampilan Berpikir Kritis, LKPD, *Outdoor Learning System*, *Project Based Learning*.

**DEVELOPMENT OF STUDENTS WORKSHEET OUTDOOR
LEARNING SYSTEM BASED ON PROJECT BASED LEARNING TO
INCREASE CRITICAL THINKING SKILLS ON THE THEME
"ENVIRONMENTAL DAMAGE" LEARNING ON
NATURAL OF SCIENCE**

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ABSTRACT

This research aims to developed Outdoor Learning System based on Project Based Learning student's worksheet in the theme "Environmental Damage" which reasonable as teaching material based on an assessment of the validator, the increasing of student's critical thinking skill and student's responses after using it in the learning process.

The research method is Research and Development (R&D), which consist of four stages, they are: 1) Define, incudles: front-end analysis, learner analysis, task analysis, concept analysis, and specifying instructional objectives; 2) Design, includes: construction criterion-referenced test, media selection, format selection, initial design; 3) Develop, includes: expert appraisal by lecturer and the natural science teacher and developmental testing; 4) Disseminate, includes: the distribution of the final product of the worksheet exclusively to the natural science teachers in Junior High School 5 Bangutapan and Junior High School 1 Banguntapan. The instruments that used in this research are validation sheet of the worksheet, the questions set of pretest and posttest, observation sheet of student's critical thinking skill, student's responses on student worksheet, and the sheet of Project Based Learning and approach implementation. The data analysis techniques that used are descriptive analysis on the feasibility of the student worksheet based on the suggestions and assessment score from the validator, gain score from the increasing of student's critical thinking skill on each meeting, student's response on the worksheet based on the suggestions and assessment score of the response sheet, and the percentage of the implementation of Project Based Learning approach.

Result of this research point out that student's worksheet Outdoor Learning System Based Project Based Learning reasonable as teaching material with excellent category. Student worksheet results of the development is also effective to increased the students' critical thinking skill with moderate category and it received a very positive responses from the students after using it in the learning process.

Keywords: Critical Thinking Skill, Outdoor Learning System, Project Based Learning, Student Worksheet.