

**PENGEMBANGAN LEMBAR KERJA SISWA (LKS) BERBASIS SIKLUS
BELAJAR 5E PADA MATERI EKOSISTEM UNTUK
MEMBERDAYAKAN *HIGHER ORDER THINKING SKILLS* (HOTS)
SISWA SMA NEGERI 1 NEGARA**

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ABSTRAK

Penelitian pengembangan ini bertujuan untuk mengetahui (1) pengembangan LKS berbasis siklus belajar 5E pada setiap tahapannya, (2) validitas LKS, (3) kepraktisan LKS dan (4) keefektifan LKS untuk memberdayakan *Higher Order Thinking Skills* (HOTS). Penelitian pengembangan ini menggunakan model penelitian ADDIE (*analyze, design, development, implementation, dan evaluation*). Subjek uji coba produk dalam penelitian ini adalah siswa kelas X MIPA 1. Instrumen yang digunakan dalam penelitian adalah angket dan soal materi ekosistem. Data penelitian dianalisis dengan teknik analisis deskriptif kualitatif dan analisis deskriptif kuantitatif. Hasil penelitian ini menunjukkan bahwa: (1) LKS berbasis siklus belajar 5E pada setiap tahapannya dikembangkan dengan model ADDIE, (2) kelayakan Lembar Kerja Siswa (LKS) berbasis siklus belajar 5E dari ahli materi dan ahli media mendapatkan presentase skor sebesar 82,9% dengan kriteria valid, (3) kepraktisan Lembar Kerja Siswa (LKS) berbasis siklus belajar 5E mendapatkan presentase sebesar 83,0% dengan kriteria sangat praktis, (4) keefektifan Lembar Kerja Siswa (LKS) berbasis siklus belajar 5E mendapatkan presentase sebesar 73,6% dengan kriteria baik. Berdasarkan hasil penelitian tersebut, Lembar Kerja Siswa (LKS) berbasis siklus belajar 5E materi ekosistem dapat digunakan sebagai alternatif baru dalam media pembelajaran di sekolah.

Kata kunci: Lembar Kerja Siswa (LKS), materi ekosistem, model ADDIE, siklus belajar 5E

**DEVELOPMENT OF STUDENT WORKSHEETS (LKS) BASED ON 5E
LEARNING CYCLE ON ECOSYSTEM MATERIALS TO EMPOWER
HIGHER ORDER THINKING SKILLS (HOTS) STUDENTS OF SMA
NEGERI 1 NEGARA**

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ABSTRACT

This development research aims to determine (1) development of 5E learning cycle-based worksheets at each stage, (2) the validity of the LKS, (3) the practicality of the LKS and (4) the effectiveness of the LKS to empower Higher Order Thinking Skills (HOTS). This development research used the ADDIE research model (analyze, design, development, implementation, and evaluation). The product trial subjects in this study were students of class X MIPA 1. The instruments used in the study were questionnaires and questions about ecosystem materials. The research data were analyzed with qualitative descriptive analysis techniques and quantitative descriptive analysis. The results of this study indicate that: (1) LKS based on the 5E learning cycle at each stage was developed using the ADDIE model, (2) the percentage score validity of LKS is 82,9% with valid criteria, (3) the practicality of the Student Worksheet (LKS) based on the 5E learning cycle gets a percentage of 83.0% with very practical criteria, (4) the effectiveness of the Student Worksheet (LKS) based on the 5E learning cycle gets a percentage of 73.6%% with good criteria. Based on the results of this study, Student Worksheets (LKS) based on the 5E learning cycle of ecosystem materials can be used as a new alternative in learning media in schools.

*Keywords: Student Worksheet (LKS), ecosystem material, ADDIE model,
5E learning cycle*