

Farhatut Toyyibah. 2025. Pengembangan E-LKPD Berbasis Model SIL (*Science Integrated Learning*) Untuk Meningkatkan Keterampilan Berpikir Kritis Siswa. Skripsi, Program Studi Pendidikan IPA, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing: Mochammad Ahied

ABSTRAK

Pengembangan E-LKPD Berbasis Model SIL (*Science Integrated Learning*) untuk meningkatkan keterampilan berpikir kritis siswa yang bertujuan untuk mengetahui kevalidan media, meningkatkan keterampilan berpikir kritis siswa, keterbacaan siswa, dan respons siswa. Media yang dikembangkan menggunakan materi struktur bumi dan perkembangannya. Model pengembangan menggunakan model ADDIE (*Analysis, Design, Development, Implementation, Evaluation*). Subjek eksperimen adalah siswa kelas IX UPTD SMP Negeri 1 Klampis dan subjek penelitian adalah siswa kelas VIII-C UPTD SMP Negeri 1 Klampis. Berdasarkan hasil penelitian yang dilakukan dapat disimpulkan bahwa: (1) Hasil data validitas E-LKPD Berbasis Model SIL (*Science Integrated Learning*) untuk meningkatkan keterampilan berpikir kritis siswa berdasarkan aspek media memperoleh rata-rata 96,87% dengan kategori sangat valid dan berdasarkan aspek materi memperoleh validitas dengan rata-rata 90,62% dengan kategori sangat valid. (2) Hasil tingkat keterbacaan siswa pada kelompok besar pengembangan E-LKPD Berbasis Model SIL memperoleh skor sebesar 86,78% dengan kriteria sangat baik. (3) Hasil tingkat respons siswa pada kelompok besar pengembangan E-LKPD Berbasis Model SIL memperoleh skor sebesar 89,62% dengan kriteria sangat baik. (4) Hasil peningkatan keterampilan berpikir kritis siswa setelah mendapat pembelajaran memperoleh nilai *N-Gain* sebesar 0,60 dengan kriteria sedang. Hal tersebut menunjukkan bahwa E-LKPD Berbasis Model SIL (*Science Integrated Learning*) untuk meningkatkan keterampilan berpikir kritis siswa sangat layak digunakan sebagai penyempurna dalam proses pembelajaran IPA.

Kata kunci: Berpikir kritis, E-LKPD, struktur bumi dan perkembangannya.

Farhatut Toyyibah. 2025. *Development of E-LKPD Based on the SIL (Science Integrated Learning) Model to Improve Students' Critical Thinking Skills*. Thesis, Science Education Study Program, Faculty of Teacher Training and Education, University Of Trunojoyo Madura. Supervisor: Mochammad Ahied

ABSTRACT

Development of E-LKPD based on the SIL (Science Integrated Learning) model to improve students' critical thinking skills which aims to determine the validity of the media, improve students' critical thinking skills, student readability and student responses. The media developed uses material on the structure of the earth and its development. The development model uses the ADDIE model (Analysis, Design, Development, Implementation, Evaluation). The experimental subjects were students of class IX UPTD SMP Negeri 1 Klampis and the research subjects were students of class VIII-C UPTD SMP Negeri 1 Klampis. Based on the results of the research carried out, it can be concluded that: (1) The validity data results of the E-LKPD Based on the SIL (Science Integrated Learning) Model to improve students' critical thinking skills based on media aspects obtained an average of 96.87% with a very valid category and based on the material aspect obtained validity with an average of 90.62% with a very valid category. (2) The results of the students' readability level in the large group of E-LKPD development based on the SIL Model obtained a score of 86.78% with very good criteria. (3) The results of the student response level in the large group of E-LKPD development based on the SIL Model obtained a score of 89.62% with very good criteria. (4) The results of improving students' critical thinking skills after learning have a percentage of 70.10% with high criteria. This shows that E-LKPD based on the SIL (Science Integrated Learning) model to improve students' critical thinking skills is very suitable to be used as a complement to the science learning process.

Key words: *Critical thinking, E-LKPD, earth structure and its development.*