

ABSTRAK

Yenni Sofia Purba, NIM 4213131055 (2025). Pengembangan Lembar Kerja Peserta Didik (LKPD) Berbasis *Discovery learning* Berbantuan Canva pada Materi Kesetimbangan Kimia untuk Meningkatkan *High Order Thinking Skill* (HOTS) Siswa

Penelitian ini bertujuan untuk mengembangkan Lembar Kerja Peserta Didik (LKPD) berbasis *Discovery learning* berbantuan Canva pada materi Kesetimbangan Kimia untuk meningkatkan *High Order Thinking Skill* (HOTS) siswa. Penelitian ini menggunakan model pengembangan ADDIE (*Analysis, Design, Development, Implementation, and Evaluation*). Sampel dalam penelitian ini adalah siswa kelas XI A SMA Negeri 1 Galang yang berjumlah 35 siswa. Instrumen penelitian yang digunakan meliputi lembar validasi ahli materi dan ahli media, angket respon siswa, serta soal *pretest* dan *posttest* untuk mengukur peningkatan *High Order Thinking Skill* siswa. Hasil penelitian menunjukkan bahwa Lembar Kerja Peserta Didik yang dikembangkan dinyatakan sangat valid dan standar BSNP, serta layak digunakan dalam proses pembelajaran. Dengan rata-rata nilai hasil validasi ahli materi sebesar 88,64%, dan ahli media 86,66%. Untuk melihat keefektifan Lembar Kerja Peserta Didik, dilakukan uji coba dengan memberikan *pretest* dan *posttest* kepada siswa. Hasilnya menunjukkan peningkatan signifikan pada kemampuan *High Order Thinking Skill* siswa, dengan skor rata-rata *pretest* sebesar 18,28% meningkat menjadi 81,42% pada *posttest*. Skor N-Gain sebesar 0,77 (77%) termasuk dalam kategori tinggi, yang mengindikasikan bahwa LKPD yang dikembangkan sangat efektif dalam meningkatkan *High Order Thinking Skill* Siswa. Uji hipotesis menggunakan *one-sample t-test* membuktikan keefektifan LKPD ($t_{hitung} = 5,481 > t_{tabel} = 1,690$). Uji normalitas *pretest* dengan Chi-Kuadrat menunjukkan data berdistribusi normal ($t_{hitung} = 10,530 < t_{tabel} = 11,070$). Selain itu, respon siswa terhadap Lembar Kerja Peserta Didik menunjukkan tingkat kepuasan yang sangat tinggi dengan rata-rata persentase 93%. Dengan demikian, Lembar Kerja Peserta Didik berbasis *Discovery learning* hasil pengembangan ini tidak hanya layak digunakan sebagai media pembelajaran, tetapi juga terbukti efektif dalam meningkatkan *High Order Thinking Skill* siswa pada materi Kesetimbangan Kimia.

Kata Kunci: Lembar Kerja Peserta Didik (LKPD), *discovery learning*, canva, kesetimbangan kimia, *High Order Thinking Skill* (HOTS).

ABSTRACT

Yenni Sofia Purba, NIM 4213131055 (2025). Development of Discovery Learning-Based Student Worksheet (LKPD) Assisted by Canva on Chemical Equilibrium Material to Enhance Students' High Order Thinking Skill (HOTS).

This research aims to develop a Student Worksheet (LKPD) based on Discovery learning assisted by Canva on the topic of Chemical Equilibrium to enhance students' High Order Thinking Skill (HOTS). The study employs the ADDIE (Analysis, Design, Development, Implementation, and Evaluation) development model. The sample for this research consisted of 35 students from class XI A at SMA Negeri 1 Galang. The research instruments used included validation sheets from material and media experts, student response questionnaires, as well as pretest and posttest questions to measure the improvement in students' High Order Thinking Skill. The results of the study indicate that the developed Student Worksheet was declared highly valid according to BSNP standards and suitable for use in the learning process. The average validation score from material experts was 88.64%, and from media experts, it was 86.66%. To assess the effectiveness of the Student Worksheet, a trial was conducted by administering pretests and posttests to the students. The results showed a significant improvement, with the average pretest score of 18.28% increasing to 81.42% in the posttest. The N-Gain score of 0.77 (77%) falls into the high category, indicating that the developed Student Worksheet is highly effective in enhancing students' High Order Thinking Skill. The hypothesis test using a one-sample t-test confirmed the effectiveness of the LKPD ($t_{\text{calculated}} = 5.481 > t_{\text{table}} = 1.690$). The pretest normality test using Chi-Square showed that the data were normally distributed ($t_{\text{calculated}} = 10.530 < t_{\text{table}} = 11.070$). Additionally, student responses to the Student Worksheet showed a very high level of satisfaction, with an average percentage of 93%. Therefore, the Discovery learning-based Student Worksheet developed in this study is not only suitable as a learning medium but has also proven to be effective in improving students' High Order Thinking Skill on the topic of Chemical Equilibrium.

Keywords: Student Worksheet (LKPD), Discovery Learning, Canva, Chemical Equilibrium, High Order Thinking Skill (HOTS).