

## ABSTRAK

**Suci Ayu Semeru, NIM 4193331001 (2023). Pengembangan Lembar Kerja Peserta Didik untuk Meningkatkan Keterampilan Berpikir Tingkat Tinggi pada Materi Kesetimbangan Kimia**

Penelitian ini bertujuan untuk mengembangkan media pembelajaran Lembar Kerja Siswa (LKPD) dengan model Problem Based Learning (PBL) pada materi kesetimbangan kimia yang valid dan efektif. Penelitian ini menggunakan metode R&D model 4D, namun langkah penelitian yang dilakukan hanya sampai 3D yaitu Define, Design, dan Develop. Instrumen yang digunakan adalah instrumen nontes berupa lembar validasi sesuai standar BSNP dan angket respon guru dan siswa terhadap LKPD yang dikembangkan. Hasil penelitian menunjukkan bahwa LKPD yang dikembangkan memenuhi kriteria kelayakan sesuai standar BSNP yang divalidasi oleh validator ahli materi dan validator ahli media yang merupakan dosen kimia UNIMED dengan memperoleh rata-rata skor persentase dari validator ahli materi sebesar 82,7% dengan kriteria “layak”. dan persentase rata-rata validator ahli media sebesar 94,6% dengan kriteria “Sangat layak”. Sedangkan berdasarkan hasil angket respon guru terhadap LKPD yang dirancang diperoleh rata-rata persentase hasil sebesar 85,83% dengan kriteria “Sangat Baik” dan rata-rata persentase angket respon siswa sebesar 92% dengan kriteria “Sangat Tertarik”. Sehingga LKPD yang dikembangkan untuk meningkatkan kemampuan berpikir tingkat tinggi layak digunakan dalam proses pembelajaran kimia khususnya pada materi kesetimbangan kimia.

**Kata kunci:** 4D, Pengembangan, Lembar Kerja Peserta Didik, Keterampilan Berpikir Tingkat Tinggi, Problem Based Learning (PBL), Topik Kesetimbangan Kimia



## ABSTRACT

### **Suci Ayu Semeru, NIM 4193331001 (2023). Development Of Student Work Sheet To Improve Higher Order Thinking Skills On Chemical Equilibrium Material**

This study aims to develop learning media for Student Worksheets (LKPD) using the Problem-Based Learning (PBL) model on chemical equilibrium material that is valid and effective. The research uses the 4D model R&D method, but the research steps carried out are only up to 3D, namely Define, Design, and Develop. The instruments used were non-test instruments in the form of validation sheets under BSNP standards and questionnaires for teacher and student responses to the developed LKPD. The results showed that the developed LKPD met the eligibility criteria according to the BSNP standards which were validated by the material expert validator and the media expert validator who is a UNIMED chemistry lecturer by obtaining an average percentage score from the material expert validator of 82.7% with the "decent" criteria. and the average percentage of media expert validators is 94.6% with the criterion of "Very feasible". Meanwhile, based on the results of the teacher's response questionnaire to the designed LKPD, the average percentage result was 85.83% with the "Very Good" criteria and the average percentage of student response questionnaires was 92% with the "Very Interested" criterion. So that the LKPD developed to improve higher-level thinking skills is appropriate for use in the chemistry learning process, especially in chemical equilibrium materials.

**Keywords:** 4D, Development, Student Worksheets, Higher Order Thinking Skills, Problem Based Learning (PBL), Chemical Equilibrium Topic

