

ABSTRAK

Mutiara Hani Tambunan, NIM 4193131033 (2023). Pengembangan Lembar Kerja Peserta Didik untuk Meningkatkan Keterampilan Berpikir Tingkat Tinggi pada Materi Asam Basa.

Penelitian ini bertujuan untuk menentukan kelayakan serta respon guru dan siswa terhadap lembar kerja peserta didik untuk meningkatkan HOTS siswa dengan menggunakan model PBL. Penelitian ini menggunakan metode penelitian R&D (Research and Development), dengan menggunakan model 4D (Define, Design, Develop, Disseminate). Teknik pengumpulan data menggunakan kuesioner berbentuk angket. Instrumen penilaian yang digunakan adalah lembar penilaian kelayakan materi dan media, angket respon guru, angket respon siswa dan analisis data menggunakan skala likert. Responden dalam penelitian ini adalah 4 dosen jurusan kimia Universitas Negeri Medan, 2 guru kimia SMA dan 10 siswa SMA Kartika 1-2 Medan. Kelayakan Lembar Kerja Peserta Didik (LKPD) dinilai oleh 4 ahli yaitu dua ahli materi dan dua ahli media. Kelayakan materi diperoleh rata-rata 87,35% dengan kriteria "Sangat Layak" dan kelayakan media diperoleh rata-rata 95,85% dengan kriteria "Sangat Layak". Selanjutnya hasil respon guru terhadap Lembar Kerja Peserta Didik (LKPD) diperoleh rata-rata 95% dengan kriteria "Sangat Layak" dan hasil respon siswa diperoleh rata-rata 91,78% dengan kriteria "Baik Sekali". Sesuai hasil penelitian Lembar Kerja Peserta Didik (LKPD) untuk meningkatkan keterampilan berpikir tingkat tinggi pada materi asam basa dinyatakan layak diujicobakan dalam pembelajaran asam basa.

Kata Kunci: 4D, Problem Based Learning (PBL), LKPD

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ABSTRACT

Mutiara Hani Tambunan, NIM 4193131033 (2023). Development of Student Worksheets to Improve Higher Order Thinking Skills on Acid-Base Subject.

This study aims to determine the feasibility and response of teachers and students to student worksheets to increase student HOTS using the PBL model. This study uses the R&D (Research and Development) research method, using the 4D model (Define, Design, Develop, Disseminate). Data collection techniques using a questionnaire in the form of a questionnaire. The assessment instruments used were material and media feasibility assessment sheets, teacher response questionnaires, student response questionnaires and data analysis using a Likert scale. Respondents in this study were 4 lecturers majoring in chemistry at Medan State University, 2 high school chemistry teachers and 10 students of SMA Kartika 1-2 Medan. The feasibility of the Student Worksheet (LKPD) was assessed by 4 experts, namely two subject experts and two media experts. The feasibility of the subject obtained an average of 87.35% with the criteria of "Very Eligible" and the eligibility of the media obtained an average of 95.85% with the criteria of "Very Eligible". Furthermore, the results of teacher responses to Student Worksheets (LKPD) obtained an average of 95% with the criteria "Very Eligible" and student response results obtained an average of 91.78% with the criteria "Very Good". According to the results of the Student Worksheet (LKPD) research to improve higher-level thinking skills in acid-base material, it is stated that it is feasible to be tested in acid-base learning.

Keywords: 4D, Problem Based Learning (PBL), Student Worksheet

