ABSTRAK

Nina Kartika Rahan, NIM 4202131002 (2024). Pengembangan Lembar Kerja Peserta Didik (LKPD) Berbasis Literasi Sains Dengan Konteks Flare Pada Materi Reaksi Redoks di SMAN 1 Tanjung Morawa.

Penelitian ini bertujuan untuk mengetahui tingkat kevalidan, respon guru dan respon peserta didik terhadap lembar kerja peserta didik berbasis literasi sains dengan konteks flare pada materi reaksi redoks. Penelitian pengembangan ini menggunakan model pengembangan 4-D yang terdiri atas 4 tahap yaitu, 1) Pendefinisian (Define), 2) Perancangan (Design), 3) Pengembangan (Develop), 4) Penyebaran (Disseminate). Yang dibatasi sampai pada tahap Pengembangan (*develop)*. Adapun subjek pada penelitian ini yaitu 2 orang validator ahli materi, 2 orang validator ahli media, 2 orang guru kimia, dan siswa kelas X Merdeka 10 yang berjumlah 33 orang peserta didik. Instrumen pengumpulan data berupa pedoman wawancara, lembar validasi LKPD oleh validator, lembar angket guru, dan lembar angket respon peserta didik. Berdasarkan hasil penelitian diperoleh rata-rata penilaian oleh ahli materi sebesar 87.6% dengan kategori sangat layak, penilaian oleh ahli media sebesar 93.9% dengan kategori sangat layak, rata-rata respon guru sebesar 96.8% dengan kategori sangat layak, dan hasil respon peserta didik didapatkan 64% peserta didik termasuk kriteria sangat layak sebanyak 21 peserta didik dan 36% peserta didik termasuk kriteria layak yakni sebanyak 12 peserta didik. Dengan demikian hasil analisis lembar angket respon peserta didik memiliki rata-rata persentase kelayakan LKPD yang didapatkan yaitu sebesar 81.4% dengan kategori "Sangat Layak". Dapat disimpulkan bahwa LKPD berbasis literasi sains dengan konteks flare pada materi reaksi redoks yang telah dikembangkan dapat menambah pengetahuan, menarik dan layak untuk digunakan.

Kata Kunci : LKPD, Literasi Sains, *Flare*, Reaksi Redoks, Model 4-D

ABSTRACT

Nina Kartika Rahan, NIM 4202131002 (2024). Development of Student Worksheets (LKPD) Based on Scientific Literacy with Flare Context in Redox Reaction Material at SMAN 1 Tanjung Morawa.

This research aims to determine the level of validity, teacher response and student response to student worksheets based on scientific literacy with flare contexts in redox reaction material. This development research uses a 4-D development model which consists of 4 stages, namely, 1) Define, 2) Design, 3) Development, 4) Disseminate. Which is limited to the Development stage. The subjects in this research were 2 material expert validators, 2 media expert validators, 2 chemistry teachers, and class X Merdeka 10 students, totaling 33 students. Data collection instruments include interview guides, LKPD validation sheets by validators, teacher questionnaire sheets, and student response questionnaire sheets. Based on the research results, the average assessment by material experts was 87.6% in the very appropriate category, the assessment by media experts was 93.9% in the very appropriate category, the average teacher response was 96.8% in the very appropriate category, and the results of student responses were obtained 64% of students fall into the very worthy criteria, namely 21 students and 36% of students fall into the worthy criteria, namely 12 students. Thus, the results of the analysis of student response questionnaire sheets have an average percentage of LKPD eligibility obtained, namely 81.4% in the "Very Eligible" category. It can be concluded that the scientific literacy-based LKPD with the context of flares in redox reaction material that has been developed can increase knowledge, be interesting and suitable for use.

Keywords: LKPD, Scientific Literacy, Flare, Redox Reaction, 4-D Model