

ABSTRAK

Maria Angelina Barus, NIM 4193331020 (2025) Pengembangan Lembar Kerja Peserta Didik Berbasis Masalah Terintegrasi Literasi Sains pada Materi Termokimia Kelas XI SMA

Jenis penelitian yang digunakan adalah penelitian pengembangan berbasis *Research and Development* (R & D) dengan model pengembangan 4D (*Define, Design, Development, Disseminate*) yang dilakukan hingga tahap development. Penelitian ini bertujuan : 1) Untuk mengetahui kelayakan LKPD berbasis Masalah Terintegrasi Literasi Sains pada Materi Termokimia 2) Untuk mengetahui respon siswa terhadap LKPD berbasis Masalah Terintegrasi Literasi Sains pada Materi Termokimia yang dikembangkan. Sampel penelitian ini adalah siswa kelas XII-1 di SMA Negeri 1 Bangun Purba dan objek penelitian adalah pengembangan lembar kerja peserta didik berbasis masalah terintegrasi literasi sains pada materi termokimia kelas XI SMA. Hasil penelitian menunjukkan : 1) Lembar kerja peserta didik berbasis masalah terintegrasi literasi sains pada materi termokimia kelas XI SMA yang telah dikembangkan telah memenuhi kriteria kelayakan isi, kelayakan penyajian, kelayakan bahasa dan kelayakan kegrafikan berdasarkan standar BSNP. Hal ini dapat dilihat dari rata-rata validasi dosen sebesar 3,62 sehingga lembar kerja peserta didik yang dikembangkan sudah valid dan layak digunakan dalam proses pembelajaran. 2) Berdasarkan hasil angket 35 respon siswa terhadap lembar kerja peserta didik berbasis masalah pada materi termokimia diperoleh rata-rata 3,65 yang berarti siswa memberikan respon positif dan tertarik terhadap lembar kerja peserta didik yang telah dikembangkan.

Kata kunci : Lembar kerja peserta didik, berbasis masalah, literasi sains, pengembangan, termokimia



ABSTRACT

Maria Angelina Barus, NIM 4193331020 (2025) Development of Problem Based Student Worksheets integrated with Science Literacy on Thermochemistry Material for Class XI SMA.

The type of research used is Research and Development (R & D) based development research with the 4D development model (Define, Design, Develop, Disseminate) that is carried out up to the development stage. This research aims to: 1) To determine the feasibility of problem-based LKPD integrated with science literacy on thermochemistry material 2) To determine the students' response to the developed problem-based LKPD integrated with science literacy on thermochemistry material. The sample of this research is class XII-1 students at SMA Negeri 1 Bangun Purba and the object of research is the development of problem-based learner worksheets integrated with science literacy on thermochemistry material in class XI SMA. The results showed: 1) Problem-based learner worksheets integrated science literacy on thermochemistry material grade XI SMA that have been developed have met the criteria of content feasibility, presentation feasibility, language feasibility and feasibility of graphics based on BSNP standards. This can be seen from the average teacher validation of 3.62, so the developed student worksheets are valid and suitable for use in the learning process. 2) Based on the results of the questionnaire 35 student responses to problem-based student worksheets on thermochemistry material obtained an average of 3.65, which means that the developed student worksheet is valid and feasible to use in the learning process.

Keywords: Student worksheets, problem-based, science literacy, development, thermochemistry

