

Pengembangan LKS IPA Inkuiri Terbimbing untuk Meningkatkan Sikap Ilmiah dan Keterampilan Proses Sains Siswa

The Development of Student Work Sheet Science Guided Inquiry to Improve Scientific Attitude and Process Skill

Oleh: Dewi Susilowati, FMIPA UNY, dewiss193@yahoo.co.id

Abstrak

Penelitian ini bertujuan untuk menghasilkan LKS IPA berbasis inkuiri terbimbing untuk meningkatkan sikap ilmiah dan keterampilan proses sains siswa SMP. Penelitian ini merupakan penelitian R&D dengan model 4D (*Define, Design, Develop, dan Disseminate*). Tahap *Disseminate* tidak dilakukan karena keterbatasan sumber daya. Teknik analisis data menggunakan analisis kualitatif dan kuantitatif. Analisis kualitatif berupa uraian saran dan skor penilaian dari validator. Analisis kuantitatif dengan perhitungan selisih persentase kemampuan peningkatan sikap ilmiah dan keterampilan proses sains serta analisis persentase respon siswa terhadap LKS IPA. Hasil penelitian ini adalah LKS IPA berbasis inkuiri terbimbing dengan tema Energi di Kehidupan memperoleh skor 52,70 dari skor maksimum 60 termasuk kategori sangat baik (A). LKS IPA mampu meningkatkan sikap ilmiah dan keterampilan proses sains. Peningkatan sikap ilmiah IPA melalui observasi sebesar 13,12% dan melalui angket sebesar 6,52%, sedangkan peningkatan keterampilan proses sains siswa selama pembelajaran menggunakan LKS IPA sebesar 25,27%.

Kata Kunci : *Pengembangan, LKS, Inkuiri Terbimbing, Sikap Ilmiah, Keterampilan Proses Sains*

Abstract

This research aims to produce a guided inquiry-based science student worksheets to improve the scientific attitude and science process skills of student junior high school. This study is categorized as R&D using 4D model (Define, Design, Develop and Disseminate). Disseminate stage is not done because of time constraints. Data were analyzed using qualitative and quantitative analyzed. Qualitative analysis is advice description and scoring of all validators. Quantitative data analysis by estimation of ability different to find out the increase of scientific attitude and science process skills and analysis of student's response percentage to science student worksheet. The results of this research is guided inquiry-based science student worksheets with the theme of Energy in Life get score 52,70 from maximum score 60 as very good (A) categorized. Science worksheet be able improving the scientific attitude and science process skills. Increased scientific attitude of students for learning through observation increases 13,12% and scientific attitude of students through questionnaire increases 6,52%, while the improvement of students' science process skills for learning to use science student worksheets increases 25,27%.

Keywords: Development, Student Worksheet, Guided Inquiry, Scientific Attitude, Scientific Process Skill