

ABSTRACT

Developing Learning Cycle 5E Model-Based Student Worksheet for Teaching Natural Science to the 5th Grade Students of Elementary School

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Student worksheets used at schools, in fact, did not yet optimally facilitate the students' development. To deal with this problem, it is necessary to develop Learning Cycle 5E Model based Student Worksheet that provides phases of activities to help the students to master the learning competences through active involvement. This research seeks to produce valid, practical, and effective Natural Science Student Worksheet by using Learning Cycle 5E Model.

This research is categorized into Research and Development study which was conducted by applying 4D (defining, designing, developing, and disseminating) model. The data were obtained through validity, practicality, and effectiveness test. The validity of the data was revealed by using validation sheet of the Student Worksheet. The practicality of the data was known through questionnaire distributed to both teachers and students. The effectiveness of the data was seen from the students' learning activities and their learning achievement as well. The data obtained were analyzed descriptively.

The results of the research indicate that the validity score of the Student Worksheet is 92,5%. On the other words, the worksheet is practical in terms of implementation, easiness, and time. The worksheet is also effective showing that the students learning activities improve from 91,10% to 95,89% and their learning achievement improves from 86,5% to 88,8%. These results suggest that the Student Worksheet developed is effective to improve the students' learning achievement. Based on the results, it is concluded that the Learning Cycle 5E Model-based Student Worksheet developed for teaching Natural Science to the 5th grade students is valid, practical and effective.

ABSTRAK

Pengembangan Lembar Kerja Siswa Pada Mata Pelajaran IPA Menggunakan Model *Learning Cycle* 5E Di Kelas V Sekolah Dasar

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LKS yang digunakan di sekolah-sekolah masih belum optimal dalam memfasilitasi perkembangan peserta didik. Untuk itu dikembangkan LKS dalam pembelajaran yang menggunakan *learning cycle* 5E yang berisikan tahapan kegiatan, sehingga peserta didik dapat menguasai pembelajaran dan meningkatkan kompetensi-kompetensi dalam pembelajaran. Tujuan penelitian ini adalah menghasilkan LKS IPA menggunakan *learning cycle* 5E yang valid, praktis, dan efektif.

Jenis penelitian yang digunakan adalah penelitian pengembangan. Model pengembangan yang digunakan adalah model Four-D, yaitu: *Define, Desain, Development* dan *Disseminate*. Data penelitian diperoleh dari uji validitas, praktikalitas, dan efektivitas. Data uji validitas diperoleh melalui lembar validasi LKS. Data kepraktisan diperoleh dari lembar angket respons guru, angket respon siswa. Data keefektifan dilihat dari aktivitas siswa dan hasil belajar siswa. Data yang telah dikumpulkan selanjutnya dianalisis secara deskriptif.

Hasil penelitian menunjukkan bahwa nilai rata-rata validitas LKS 92,5%. LKS sudah praktis baik dari segi keterlaksanaan, kemudahan, dan waktu. LKS juga telah efektif dari segi aktivitas dan hasil belajar siswa dengan nilai rata-rata aktivitas siswa saat uji coba meningkat 91.10% dan hasil belajar dengan tingkat ketuntasan siswa 88,8% dan saat penyebaran terlihat aktivitas siswa rata-rata 95,89% dan hasil belajar 86,5%. Ini berarti LKS yang digunakan dalam pembelajaran efektif dalam meningkatkan hasil belajar siswa. Berdasarkan hasil tersebut dapat disimpulkan bahwa LKS model *learning cycle* 5E yang dikembangkan pada pembelajaran IPA di kelas V SD dapat dinyatakan valid, praktis, dan efektif.