

ABSTRAK**PENGEMBANGAN LKS IPA BERBASIS PENDEKATAN SAINTIFIK UNTUK SISWA KELAS IV MATERI MACAM-MACAM ENERGI**

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Latar belakang penelitian ini adalah terbatasnya penggunaan LKS dalam pembelajaran IPA dan kurangnya pemahaman guru tentang pendekatan saintifik yaitu mengamati, menanya, menalar, mencoba, dan mengomunikasikan. Penelitian dilaksanakan pada sampel yaitu SD Negeri Demangan Yogyakarta pada siswa kelas IV tahun ajaran 2016/2017. Tujuan penelitian ini adalah untuk mengembangkan produk LKS IPA berbasis pendekatan saintifik materi macam-macam energi dan dapat mengembangkan LKS IPA dengan kualitas yang baik.

Metode penelitian ini adalah penelitian dan pengembangan (R&D). Model yang digunakan adalah model pengembangan Dick & Carey (2003). Model tersebut dimodifikasi ke dalam delapan langkah pengembangan, yaitu analisis kebutuhan, merumuskan tujuan khusus, mengembangkan instrumen, mengembangkan strategi, mengembangkan isi LKS, evaluasi formatif, revisi, dan evaluasi sumatif.

Hasil penelitian menunjukkan bahwa produk LKS IPA materi macam-macam energi dikembangkan berbasis pendekatan saintifik dengan lima tahapan yaitu mengamati, menanya, menalar, mencoba, dan mengkomunikasikan. Validasi LKS oleh ahli IPA menunjukkan bahwa kualitas LKS baik dengan rerata sebesar 2,8 dan oleh guru validasi menunjukkan bahwa kualitas LKS sangat baik dengan rerata 3,7. Pada uji coba lapangan terbatas terdapat peningkatan nilai hasil *pretest* dan *posttest* sebesar 29%. Dengan demikian, dapat disimpulkan bahwa LKS IPA berbasis pendekatan saintifik yang dikembangkan dapat membantu siswa dalam meningkatkan hasil belajar IPA materi macam-macam energi.

ABSTRACT***THE DEVELOPMENT OF STUDENT WORKSHEET OF SCIENCE BASED ON SCIENTIFIC APPROACH FOR THE GRADE FOUR OF THE ELEMENTARY SCHOOL ABOUT THE KINDS OF ENERGY.***

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The background of this research is the limited use of student worksheets of science learning and teachers' lack in understanding the scientific approach observe, question, reason, try, and communicate. The sample of this research is SDN Demangan Yogyakarta grade four, 2016/2017 academic year. The purpose of this research is to develop the student worksheet's product of science based on the scientific approach to the material of kinds of energy and develop student worksheet of science in a good quality. The methods in this research are the research and the development (R & D). The model used is the model of Dick & Carey's development (2003). This model is modified into eight stages of development. There are analysis of needs, the formulate specific goals, developing instruments, develop strategy, develop the content of student worksheet of science, formative evaluation, revision, and summative evaluation.

The result of this research shows that the product of student worksheet of science about the materials of the kinds of energy is developed based on scientific approach with five stages: observing, questioning, reasoning, trying and communicating. Validation of student worksheet science by scientific experts shows that this student worksheet has a good quality with the average score is about 2.8 and by teachers validation shows that the quality of this student worksheet is very good average score is a3.7. Limited field trial showed that the value obtained by the students at higher than pretest-posttest with the increase in the value of of 29 percent. Thus, it can be concluded that the student worksheet of science-based scientific approach that was developed can help the students in improving student learning outcomes of science about kinds of material energy.