

**PENGEMBANGAN LKS IPA BERBASIS PEMBELAJARAN KOOPERATIF
STAD MATERI POKOK CIRI-CIRI MAKHLUK HIDUP UNTUK
MENINGKATKAN KETERAMPILAN PROSES SAINS SISWA
SMP DI PLERET BANTUL**

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ABSTRAK

Penelitian ini bertujuan untuk menghasilkan LKS IPA berbasis pembelajaran kooperatif STAD yang memenuhi kelayakan sebagai bahan ajar menurut dosen ahli, teman sejawat, dan guru IPA, serta untuk mengetahui peningkatan keterampilan proses sains siswa setelah menggunakan LKS IPA berbasis pembelajaran kooperatif STAD.

Jenis penelitian yang dikembangkan adalah *Research and Development* (R&D) dengan model 4-D. Model penelitian ini terdiri dari 4 tahap penelitian dan pengembangan, yaitu: 1) *Define*, meliputi analisis awal, analisis siswa, analisis tugas, analisis konsep, dan analisis tujuan pembelajaran; 2) *Design*, meliputi penyusunan tes acuan patokan, pemilihan media yang sesuai tujuan, dan pemilihan format; 3) *Develop*, meliputi validasi LKS oleh dosen ahli, teman sejawat, dan guru IPA. Produk hasil validasi kemudian digunakan untuk uji lapangan dan uji keterampilan proses sains siswa dalam pembelajaran IPA. 4) *Disseminate*, yaitu penyebaran produk akhir secara terbatas di SMP Negeri 2 Pleret yang diserahkan untuk 3 guru IPA dan untuk perpustakaan, serta di SMP Negeri 1 Pleret yang diserahkan untuk 2 guru IPA. Data validasi dosen ahli, teman sejawat, dan guru IPA diperoleh melalui lembar validasi, sedangkan data keterampilan proses sains diperoleh melalui lembar observasi, penilaian LKS dan laporan hasil kegiatan. Teknik analisis data yang digunakan adalah analisis deskriptif kelayakan LKS berdasarkan skor dan masukan dari validator dan *gain score* peningkatan keterampilan proses sains siswa.

Hasil penelitian menunjukkan bahwa berdasarkan penilaian dosen ahli, teman sejawat, dan guru IPA, kelayakan LKS hasil pengembangan termasuk dalam kategori sangat baik. LKS hasil pengembangan juga mampu meningkatkan keterampilan proses sains siswa dengan kategori sedang.

Kata kunci: keterampilan proses sains, kooperatif STAD, LKS IPA, pengembangan

**DEVELOPMENT OF STUDENT WORKSHEET FOR NATURAL SCIENCE
BASED ON COOPERATIVE LEARNING STAD ON THE SUBJECT
MATTER OF THE CHARACTERISTICS OF LIVING THINGS TO
IMPROVE SCIENCE PROCESS SKILLS OF SECONDARY
SCHOOL STUDENTS IN PLERET BANTUL**

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ABSTRACT

This research aims to produce students' worksheets in natural science based on cooperative learning STAD that fulfill feasibility as teaching materials by expert lecturers, peers, and science teacher and to determine the improving of students' science process skill after using student worksheet for natural science class based on cooperative learning STAD.

The type of research being developed is the Research and Development 4D model. The research model consist of four phases of research and development, is: 1) Define, includes preliminary analysis, analysis of students, analysis of the task, analysis of the concept, and analysis of the learning objectives; 2) Design, includes preparation of standard reference tests, the selection of the appropriate destination media, and election format; 3) Develop, includes validation student worksheet by expert lecturer, peers, and science teacher. Product of validation result are then used to field test and test students' science process skills in learning. 4) Disseminate, include: dissemination of the final product exclusively on SMP Negeri 2 Pleret submitted to three science teachers and for the library, and also in SMP Negeri 1 Pleret submitted to two teachers. Data validation expert lecturers, peers, and teacher of science obtained through validation sheet, while data science process skills acquired through observation sheet, assessment of student worksheet and report on their activities. Data analysis techniques that used are descriptive analysis on the eligibility of the student worksheet based on the score and suggestions from validator and gain score from the increasing of students' science process skills.

The results showed that based on the assessment expert lecturers, peers, and teachers of science, student worksheet feasibility of the development included in the excellent category. Student worksheet results of the development can also to improve the students' science process skills with moderate category.

Keywords: cooperative STAD, development, science process skill, student worksheet for natural science