

ABSTRAK

**PENGEMBANGAN LKPD BERBASIS *VIRTUAL LAB*
MATERI SISTEM PERNAPASAN MANUSIA UNTUK
MELATIH KEMAMPUAN LITERASI SAINS SISWA KELAS V SD**

Agustinus Edi Prasetya
Universitas Sanata Dharma
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Guru jarang melakukan praktikum IPA, sekolah kekurangan alat lab, sekolah tidak mempunyai ruang lab IPA, siswa kesulitan belajar sistem pernapasan manusia, kemampuan literasi sains siswa kelas V yang rendah menjadi permasalahan utama dalam riset ini. Tujuan riset ini adalah mengembangkan LKPD berbasis *virtual lab* materi sistem pernapasan manusia untuk melatih kemampuan literasi sains siswa kelas V dan mengetahui kualitas LKPD tersebut. Riset ini menerapkan *R&D* tipe ADDIE. Pihak yang terlibat dalam riset ini adalah dua validator: ahli LKPD dan guru kelas V. Subjek uji coba produk adalah delapan belas siswa kelas V. Subjek analisis kebutuhan adalah enam siswa kelas V. Hasil penelitian menyatakan bahwa (1) LKPD ini sesuai tahapan ADDIE, (2) Kualitas LKPD ini sangat baik dan layak digunakan karena memperoleh skor rata-rata ahli LKPD dan guru kelas V sebesar 3,87, (3) LKPD terbukti dapat melatih kemampuan literasi sains karena hasil jawaban semua kelompok memiliki rata-rata persentase kemampuan literasi sains sebesar 96,33% dengan kategori tinggi. Oleh karena itu, pengembangan LKPD berbasis *virtual lab* materi sistem pernapasan manusia efektif untuk melatih kemampuan literasi sains siswa SD kelas V.

Kata kunci: Lembar Kerja Peserta Didik (LKPD), *virtual lab*, kemampuan literasi sains.

ABSTRACT***THE DEVELOPMENT OF VIRTUAL LAB-BASED STUDENT'S WORKSHEET MATERIAL OF HUMAN RESPIRATORY SYSTEM TO TRAIN SCIENCE LITERACY SKILLS OF 5TH GRADE ELEMENTARY SCHOOL STUDENTS***

Agustinus Edi Prasetya
Sanata Dharma University
2023

Teachers rarely did science practicums, the school lack of lab equipment, the school does not have a science lab room, students had difficulty studied the human respiratory system, the low science literacy ability of fifth grade students is the main problem in this research. The purpose of this research is to develop a virtual lab-based student's worksheet on human respiratory system material to train the science literacy skills of fifth-grade students and determine the quality of the student's worksheet. This research applies ADDIE type of R&D. The parties involved in this research were two validators: Student's worksheet experts and class V teachers. The subject to train this student's worksheet is eighteen students of grade V. Analysis subject of needs is six students of grade V. The results of the study shows that (1) This student's worksheet is in line with the ADDIE stage, (2) Student's worksheet product quality is very good and feasible to be applied because it obtained an overall average score of student's worksheet experts and class V teachers of 3.87, (3) Student's worksheet was proven to be able to train science literacy skills because the results of all students's answers had an average percentage of 96.33% which is in the high category. Therefore, the development of student's worksheet based on virtual lab material on the human respiratory system is effective to train the science literacy skills of fifth-grade elementary school students.

Keywords: *student's worksheet, virtual lab, science literacy skills.*