

PENGEMBANGAN LKPD BERBASIS SETS DENGAN METODE *OUTDOOR LEARNING* UNTUK MENUMBUHKAN *SCIENCE PROCESS SKILL* DAN SIKAP PEDULI LINGKUNGAN PESERTA DIDIK KELAS VII SMP

Claudhia Maya Anandhi
13312241072

ABSTRAK

Penelitian ini bertujuan untuk: (1) menghasilkan LKPD berbasis SETS dengan metode *outdoor learning* yang layak untuk menumbuhkan *science process skill* dan sikap peduli lingkungan berdasarkan penilaian dari validator, (2) mengetahui respon peserta didik terhadap LKPD berbasis SETS dengan metode *outdoor learning* yang dikembangkan, (3) mengetahui pertumbuhan *science process skill* setelah menggunakan LKPD berbasis SETS dengan metode *outdoor learning* yang dikembangkan, dan (4) mengetahui pertumbuhan sikap peduli lingkungan setelah menggunakan LKPD berbasis SETS dengan metode *outdoor learning* yang dikembangkan.

Penelitian pengembangan LKPD ini menggunakan model 4D (*define, design, develop, dan disseminate*). Subjek penelitian ini adalah 30 peserta didik kelas VII E SMPN 1 Paliyan. Instrumen yang digunakan pada penelitian ini meliputi lembar validasi LKPD, angket respon peserta didik terhadap LKPD, lembar observasi keterlaksanaan pembelajaran, lembar observasi dan soal *pretest-posttest science process skill*, serta angket sikap peduli lingkungan peserta didik. Teknik analisis data yang digunakan untuk lembar validasi dan angket respon peserta didik adalah analisis skala empat yang dikategorikan. Data keterlaksanaan pembelajaran dianalisis menggunakan persentase yang dikategorikan. Data lembar observasi *science process skill* dianalisis menggunakan persentase yang dikategorikan. Data soal *pretest-posttest* dianalisis menggunakan *normalized gain score* dan *paired sample t-test*. Data angket sikap peduli lingkungan dianalisis menggunakan persentase, *normalized gain score*, dan *paired sample t-test*.

Hasil penelitian menunjukkan bahwa (1) LKPD yang dikembangkan valid untuk menumbuhkan *science process skill* dan sikap peduli lingkungan peserta didik ditinjau dari hasil validasi dosen ahli dan guru IPA dengan kategori sangat baik. (2) Respon peserta didik terhadap LKPD ditinjau dari angket respon adalah sangat baik. (3) LKPD ini mampu menumbuhkan *science process skill* peserta didik kelas VII SMP dengan persentase penguasaan berkategori baik, *normalized gain score* dengan kategori sedang, dan didukung dengan *paired sample t-test* dengan hasil signifikan. (4) LKPD ini mampu menumbuhkan sikap peduli lingkungan peserta didik kelas VII SMP dengan persentase penguasaan berkategori baik, *normalized gain score* dengan kategori sedang, dan didukung *paired sample t-test* dengan hasil signifikan

Kata kunci: LKPD, *science process skill*, SETS dengan metode *outdoor learning*, sikap peduli lingkungan

**DEVELOPMENT OF SETS-BASED WITH *OUTDOOR LEARNING-METHOD*
STUDENT WORKSHEET TO ADVANCE SCIENCE PROCESS SKILL AND
ENVIRONMENTAL ATTITUDE IN A VIIth GRADE HIGH SCHOOL
STUDENTS**

Claudhia Maya Anandhi
13312241072

ABSTRACT

The aims of this research were to: (1) produce SETS-based with outdoor learning-method student worksheet which is valid to advance students' science process skill and environmental attitude in a VIIth grade high school students based on validator, (2) know student respond on SETS-based with outdoor learning-method student worksheet (3) know the advancement of students' science process skill after using the developed SETS-based with outdoor learning-method student worksheet and (4) know the advancement of students' environmental attitude after using the developed SETS-based with outdoor learning-method student worksheet.

Research model that is being conducted is 4D model (define, design, develop, and disseminate). The sample of this study included 30 students of VII E class SMPN 1 Paliyan. Data were collected using validation form, student response questionnaire towards student worksheet, SETS-based with outdoor learning-method observation form, science process skill observation form, pretest-posttest of science process skill, and environmental attitude questionnaire. Data that were obtained from validation form and student response questionnaire towards student worksheet were analyzed using categorized four-scale analysis. Data that were obtained from SETS-based with outdoor learning-method observation form were analyzed using categorized percentage. Data that were obtained from science process skill observation form were analyzed using categorized percentage. Data that were obtained from pretest-posttest of science process skill were analyzed using normalized gain score and paired sample t-test. Data that were obtained from environmental attitude questionnaire were analyzed using percentage, normalized gain score, and paired sample t-test.

According to results: (1) The developed student worksheet was valid to advance students' science process skill and environmental attitude in a VIIth grade high school students according to validator, with very good category. (2) Student responses on developed worksheet were very good. (3) Developed worksheet can advance students science process skill which is shown by good percentage, medium gains, and supported by significant result of paired sample t-test. (4) Developed worksheet can advance students environmental attitude which is shown by good percentage, medium gains, and supported by significant result of paired sample t-test.

Keywords: environmental attitude, science process skill, SETS-based with outdoor learning-method, student worksheet