

**PENGEMBANGAN LKPD BERBASIS *INQUIRY SCIENCE ISSUES*
UNTUK MENUMBUHKAN *PRACTICAL SKILL* DAN *ENVIRONMENTAL
ATTITUDE* PESERTA DIDIK KELAS VII SMP**

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ABSTRAK

Penelitian ini bertujuan untuk (1) menghasilkan LKPD berbasis *inquiry science issues* yang layak untuk menumbuhkan *practical skill* dan *environmental attitude*; (2) mengetahui respon peserta didik terhadap produk LKPD berbasis *inquiry science issues* yang dikembangkan; (3) mengetahui pertumbuhan *practical skill* setelah menggunakan produk LKPD berbasis *inquiry science issues* yang dikembangkan; dan (4) mengetahui pertumbuhan *environmental attitude* setelah menggunakan produk LKPD berbasis *inquiry science issues* yang dikembangkan.

Penelitian pengembangan LKPD ini menggunakan model 4D yang meliputi tahap *define* (pendefinisian), *design* (perancangan), *develop* (pengembangan), dan *disseminate* (penyebarluasan). Subjek dalam penelitian ini adalah 30 peserta didik kelas VII B SMP N 1 Paliyan. Instrumen yang digunakan pada penelitian ini meliputi lembar validasi LKPD, angket respon peserta didik terhadap LKPD, lembar observasi keterlaksanaan pembelajaran, lembar observasi *practical skill*, soal *pretest-posttest practical skill*, dan kuesioner *environmental attitude* peserta didik. Teknik analisis data yang digunakan untuk lembar validasi dan angket respon peserta didik adalah analisis dengan pedoman kriteria penilaian ideal untuk menentukan kelayakan LKPD yang dikembangkan. Data keterlaksanaan pembelajaran dan lembar observasi *practical skill* dianalisis dengan menggunakan pedoman kriteria penilaian dalam bentuk persentase. Data yang diperoleh dari soal *pretest-posttest* dan kuesioner *environmental attitude* dianalisis dengan menggunakan *gain score* ternormalisasi. Uji *t-test* berkorelasi dilakukan untuk mengetahui signifikansi pertumbuhan *practical skill* dan *environmental attitude*.

Hasil penelitian menunjukkan bahwa (1) LKPD yang dikembangkan layak untuk menumbuhkan *practical skill* dan *environmental attitude* peserta didik; (2) Respon peserta didik terhadap LKPD yang ditinjau dari angket respon peserta didik adalah sangat baik dengan nilai A; (3) LKPD ini mampu menumbuhkan *practical skill* peserta didik SMP dengan penguasaan *practical skill* peserta didik sebesar 77,87% setelah menggunakan LKPD dan *gain score* ternormalisasi sebesar 0,64 yang termasuk kategori sedang. Uji *t-test* berkorelasi menunjukkan bahwa *practical skill* peserta didik mengalami pertumbuhan yang signifikan setelah menggunakan LKPD dengan nilai signifikansi (Sig.) sebesar 0,000; dan (4) LKPD mampu menumbuhkan *environmental attitude* peserta didik SMP kelas VII dengan rata-rata persentase *environmental attitude* peserta didik setelah menggunakan LKPD sebesar 87,58 % dan *gain score* ternormalisasi sebesar 0,67 yang termasuk kategori sedang. Uji *t-test* berkorelasi menunjukkan bahwa *environmental attitude* peserta didik mengalami pertumbuhan yang signifikan setelah menggunakan LKPD dengan nilai signifikansi (Sig.) sebesar 0,000.

Kata kunci: *LKPD, Inquiry Science Issues, practical skill, environmental attitude*

**DEVELOPMENT OF INQUIRY SCIENCE ISSUES-BASED STUDENT
WORKSHEET TO ADVANCE PRACTICAL SKILL AND ENVIRONMENTAL
ATTITUDE IN A SEVENTH GRADE HIGH SCHOOL STUDENTS**

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ABSTRACT

The aims of this research were to (1) develop inquiry science issues-based student worksheet based which is feasible to advance students' practical skill and environmental attitude, (2) know students' responses towards inquiry science issues-based student worksheet, (3) know the advancement of students' practical skill after using the developed inquiry science issues-based student worksheet and (4) know the advancement of students' environmental attitude after using the developed inquiry science issues-based student worksheet.

Research model that is being conducted is 4D model comprises define stage, design stage, develop stage, and disseminate stage. The sample of this study included 30 seventh grade high school students of B class SMP N 1 Paliyan. Data were collected using validation form, student response questionnaire towards student worksheet, inquiry science issues observation form, practical skill observation form, pretest-posttest of practical skill, and environmental attitude questionnaire. Data that were obtained from validation form and student response questionnaire towards student worksheet were analyzed using ideal assessment criteria to determine the quality of inquiry science issues-based student worksheet. Data that were obtained from inquiry science issues observation form and practical skill observation form were analyzed using standard assessment criteria to obtain its percentage. Data that were obtained from pretest-posttest of practical skill and environmental attitude questionnaire were analyzed using normalized *gain score*. Paired sample t-test was used to determine the advancement of practical skill and environmental attitude.

According to results, (1) the developed worksheet was feasible to advance students' practical skill and environmental attitude; (2) Students' responses to the developed worksheet were found very good (A); (3), the developed worksheet could advance students' practical skill with the average score of practical skill after using the developed worksheet was 77,87%. The value of the normalized gains were 0,64, categorized as medium gains. Paired sample t-test indicated that there was significant advancement of students' practical skill after using the developed student worksheet with the Sig. value was reported to be 0,000; and (4) the developed worksheet could advance students' environmental attitude with the average score of environmental attitude after using the developed worksheet was 87,58%. The value of the normalized gains were 0,67, categorized as medium gains. Paired sample t-test indicated that there was significant advancement of students' environmental attitude after using the developed student worksheet with the Sig. value was reported to be 0,000.

Keywords: student worksheet, Inquiry Science Issues, practical skill, environmental attitude