

**PENGEMBANGAN LKPD IPA MATERI ZAT ADITIF PADA MAKANAN
BERPENDEKATAN *AUTHENTIC INQUIRY LEARNING* UNTUK
MENUMBUHKAN KEMAMPUAN *PROBLEM SOLVING* DAN
SIKAP INGIN TAHU PESERTA DIDIK SMP KELAS VIII**

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui: (1) kelayakan hasil pengembangan LKPD IPA berpendekatan *authentic inquiry learning*, (2) pertumbuhan kemampuan *problem solving* peserta didik SMP kelas VIII terhadap LKPD IPA berpendekatan *authentic inquiry learning*, (3) pertumbuhan sikap ingin tahu peserta didik SMP kelas VIII terhadap LKPD IPA berpendekatan *authentic inquiry learning*.

Metode penelitian adalah *Research and Development* (R & D) dengan model 4-D. Tahap-tahap penelitian ini meliputi tahap *define, design, develop, dan disseminate*. Instrumen penelitian yang digunakan berupa lembar validasi untuk dosen ahli dan guru IPA, lembar observasi keteraksanaan pembelajaran *authentic inquiry learning*, angket respon peserta didik terhadap LKPD IPA berpendekatan *authentic inquiry learning*, lembar observasi kemampuan *problem solving*, instrumen soal tes *problem solving* berupa *pretest* dan *posttest*, lembar observasi sikap ingin tahu peserta didik, dan angket sikap ingin tahu peserta didik. Subjek penelitian adalah peserta didik SMP kelas VIII di SMP N 2 Imogiri. Teknik analisis data pada kelayakan, respon peserta didik, dan angket sikap ingin tahu dengan mengkonversi skor menjadi skala lima, untuk lembar observasi kemampuan *problem solving* dan sikap ingin tahu dengan persentase, kemudian untuk tes kemampuan *problem solving* dengan menggunakan *gain score*.

Hasil penelitian dari pengembangan LKPD IPA menunjukkan bahwa: (1) LKPD IPA berpendekatan *authentic inquiry learning* layak digunakan sebagai bahan ajar dengan kategori sangat baik (A), didukung dengan hasil respon peserta didik terhadap LKPD IPA berada pada kategori baik (B) dan keterlaksanaan pembelajaran *authentic inquiry learning* dapat 100% terlaksana dengan sangat baik, (2) Kemampuan *problem solving* peserta didik berdasarkan analisis *gain score* 0,6 berada pada kategori Sedang, (3) Sikap ingin tahu peserta didik berada pada kategori sangat baik (A).

Kata Kunci: LKPD, *Authentic Inquiry Learning*, Kemampuan *Problem Solving*, Sikap ingin Tahu

DEVELOPMENT OF STUDENT WORKSHEET USING *AUTHENTIC INQUIRY LEARNING* APPROACH IN FOOD ADDITIVES TO GROWTH PROBLEM SOLVING SKILLS AND STUDENTS CURIOSITIES FOR THE SECOND GRADE OF JUNIOR HIGH SCHOOL STUDENTS

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ABSTRACT

This study aims to determine: (1) the feasibility of the development Science LKPD with authentic inquiry learning, (2) The growth ability in problem solving of junior high school student grade VIII to Science LKPD with authentic inquiry learning (3) The growth curiosity of high school student grade VIII to Science LKPD with authentic inquiry learning.

This study using Research and Development (R & D) with 4-D model. The stages of this study includes define, design, develop, and disseminate. Instrument used in this study are form of sheets validation for expert lecturers and science teachers, observation sheet authentic inquiry learning, questionnaire responses of learners to Science LKPD using authentic inquiry learning, observation sheet problem solving ability, instrument of test problem solving such as pretest and posttest, observation sheet of student's curiosity, and the questionnaire of student's curiosity. Subjects in this study were students grade VIII E in SMP N 2 Imogiri. Data analysis techniques on the feasibility, the response of learners, and questionnaires curiosity to convert the score to a scale of five, to the observation sheet problem solving skills and curiosity to the percentage, then to test problem solving skills by using gain score.

The result of the development Science LKPD showed that: (1) Science LKPD with authentic inquiry learning is fit for use as teaching materials with excellent category (A), supported by the results of responses of learners to Science LKPD is in good category (B) and authentic inquiry learning can be 100% done very well, (2) the student's ability of problem solving based on gain score analysis is 0.6 in the category Medium, (3) Student's attitude curiosity are in the very good category (A).

Key Word: LKPD, Authentic Inquiry Learning, Problem Solving, Curiosity