ABSTRACT

Novelia Prima. 2020. Development of Student Worksheets Using Integrated Problem Based Learning Model of Creative Thinking in High School Physics Learning. Thesis. Master of Physics Education Program, Faculty of Mathematics and Natural Sciences, Padang State University.

The creative thinking ability of students in high school physics learning is still low. One of the contributing factors is the used of student worksheets in school has not included steps in the learning model that improving the creative thinking abilities of students. This study aims to produce a student worksheet using integrated problem-based learning model of creative thinking in high school physics learning that is valid and practical.

This type of research is research and development using the 4D model with three phases, which are define, design, and develop. The research instruments included interview guidelines, teacher and student observation questionnaires, validity questionnaires, and practicality questionnaires. Data analysis techniques for validity used the Aiken's V formula and for practicality used descriptive percentages.

The results of define phase is the need to develop student worksheets using an integrated problem based learning model of creative thinking. The develop result shows student worksheets is in valid criteria based on validity result, very practical based on the responses of teachers and students, and effective based on student's pretest and posttest result. Thus, it can be concluded that student worksheets using integrated problem-based learning model of creative thinking in high school physics learning meets valid,practical, and effective criteria.

Keywords: Student Worksheets, Problem Based Learning Model, Creative Thinking Ability.

ABSTRAK

Novelia Prima. 2020. Pengembangan LKPD Menggunakan Model *Problem Based Learning* Terintegrasi *Creative Thinking* Pada Pembelajaran Fisika SMA. Tesis. Program Studi Magister Pendidikan Fisika Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Negeri Padang.

Kemampuan berpikir kreatif peserta didik pada pembelajaran fisika SMA masih rendah. Salah satu faktor penyebabnya adalah LKPD yang digunakan dalam pembelajaran di sekolah belum memuat langkah-langkah model pembelajaran yang mengarahkan kemampuan berpikir kreatif peserta didik. Penelitian ini bertujuan untuk menghasilkan LKPD menggunakan model *problem based learning* terintegrasi *creative thinking* pada pembelajaran fisika SMA yang valid dan praktis.

Jenis penelitian ini adalah penelitian dan pengembangan menggunakan model 4D dengan tiga tahap yaitu *define, design,* dan *develop.* Instrumen penelitian meliputi pedoman wawancara, angket observasi guru dan peserta didik, angket validitas, serta angket praktikalitas. Teknik analisis data untuk validitas menggunakan rumus Aiken's V dan untuk praktikalitas menggunakan deskriptif persentase.

Hasil *define* menunjukkan perlunya pengembangan LKPD menggunakan model *problem based learning* terintegrasi *creative thinking*. Hasil *develop* menunjukkan LKPD berada pada kriteria valid berdasarkan hasil validasi, sangat praktis berdasarkan respon guru dan peserta didik, dan efektif berdasarkan hasil analisis *pretest* dan *posttest* peserta didik. Dengan demikian, dapat disimpulkan bahwa LKPD menggunakan model *problem based learning* terintegrasi *creative thinking* pada pembelajaran fisika SMA memenuhi kriteria valid, praktis, dan efektif.

Kata Kunci: Lembar Kerja Peserta Didik (LKPD), Model *Problem Based Learning*, Kemampuan Berpikir Kreatif.