

ABSTRAK

PENGEMBANGAN e-LKPD BERBASIS *LEARNING CYCLE 7E* UNTUK MENSTIMULUS *COMPLEX PROBLEM SOLVING* DAN *SELF EFFICACY* SISWA

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Penelitian ini bertujuan untuk mendeskripsikan e-LKPD berbasis *learning cycle 7E* yang valid, praktis, dan efektif untuk menstimulus *complex problem solving* dan *self efficacy* siswa. Desain yang digunakan pada penelitian pengembangan ini menggunakan *Design and Development Research (DDR)* terdiri dari keempat tahapan *analysis, design, development, dan evaluation*. Instrumen pengumpulan data yang digunakan angket analisis kebutuhan, skala uji validitas, skala uji keterlaksanaan, skala uji kemenarikan, skala keterbacaan, skala *self efficacy*, dan instrumen soal *complex problem solving*. Pada uji kevalidan yang telah dilakukan, e-LKPD dinyatakan valid ditinjau dari validasi media dan desain diperoleh rata-rata persentase sebesar 78,67%, validasi isi diperoleh rata-rata persentase sebesar 81,07%, dan validasi konstruk diperoleh rata-rata persentase sebesar 78,67%. Hasil uji kepraktisan ditinjau dari rata-rata persentase keterbacaan sebesar 80,24%, rata-rata persentase keterlaksanaan sebesar 83,00%, dan rata-rata persentase uji kemenarikan sebesar 80,81%. Hasil uji keefektifan ditunjukkan oleh hasil uji *N-Gain* diperoleh peningkatan *complex problem solving* dan *self efficacy* siswa sebesar 0,56 dan 0,60 dalam kategori cukup efektif, hasil uji beda *N-Gain* kelas eksperimen dan kontrol (*Independent Sample T-Test*) diperoleh hasil adanya perbedaan yang signifikan *complex problem solving* dan *self efficacy* siswa pada kelas eksperimen dan kontrol, dan hasil uji beda *pre* dan *post* (*Paired Sample T-Test*) pada kelas eksperimen diperoleh hasil adanya perbedaan yang signifikan antara nilai hasil *pretest* dan *posttest* pada *complex problem solving* dan *self efficacy* siswa, sehingga dapat dinyatakan bahwa e-LKPD efektif. Oleh karena itu, penelitian pengembangan e-LKPD berbasis *learning cycle 7E* berbantuan *Flip PDF Corporate* pada materi Hukum Newton tentang gerak dinyatakan valid, praktis, dan efektif.

Kata kunci: *Complex problem solving, e-LKPD, Learning cycle 7E, Self-efficacy*

ABSTRACT

DEVELOPMENT OF e-LKPD BASED ON LEARNING CYCLE 7E TO STIMULUS COMPLEX PROBLEM SOLVING AND STUDENTS' SELF EFFICACY

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This research aims to describe e-LKPD based on the 7E learning cycle that is valid, practical, and effective for stimulating complex problem-solving and students' self-efficacy. The design used in this development research uses Design and Development Research (DDR) consisting of four stages analysis, design, development, and evaluation. The data collection instruments used were needs analysis questionnaires, validity test scales, implementation test scales, attractiveness test scale, readability scales, self-efficacy scales, and complex problem-solving question instruments. In the validity test that has been carried out, e-LKPD is declared valid in terms of media and design validation, obtaining an average percentage of 78.67%, content validation obtaining an average percentage of 81.07%, and construct validation obtaining an average percentage amounting to 78.67%. The practicality test results were viewed from the average readability percentage of 80.24%, the average implementation percentage of 83.00%, and the the average percentage of the attractiveness test is 80.81%. The results of the effectiveness test are shown by the results of the N-Gain test, which showed an increase in complex problem-solving and student self-efficacy of 0.56 and 0.60 in the quite effective category. The results of the N-Gain test for the experimental and control classes (Independent Sample T-Test) were obtained. The results showed that there were significant differences in complex problem-solving and student self-efficacy in the experimental and control classes, and the results of the pre-and post-test (Paired Sample T-Test) in the experimental class showed that there were significant differences between the pretest and post-test scores on complex problems. solving and student self-efficacy, so it can be stated that e-LKPD is effective. Therefore, research into the development of e-LKPD based on the 7E learning cycle assisted by Flip PDF Corporate on Newton's Laws of Motion material was declared valid, practical, and effective.

Keywords: Complex problem solving, e-LKPD, Learning cycle 7E, Self-efficacy