

ABSTRAK

Yuyun Andika, 2023. Pengembangan Media Pelontar Parabola Untuk Meningkatkan Keterampilan *Proses Sains Pada Materi Gerak Parabola*. Skripsi. Program Studi Pendidikan Fisika, FKIP, Universitas PGRI Madiun. Program Sarjana S.1. Pembimbing (I) Dr. Tantri Mayasari, S.Pd., M.Pd., (II) Mislan Sasono, S.Pd., Si., M.Pd.

Peningkatan kualitas pendidikan di Indonesia bertujuan meningkatkan potensi sumber daya manusia melalui kerjasama pemerintah dan perubahan kurikulum, pemberdayaan guru, dan metode pembelajaran yang inovatif. Tujuan penelitian ini adalah mengembangkan media pembelajaran yaitu pengembangan media pelontar parabola untuk meningkatkan keterampilan proses sains siswa pada materi gerak parabola. Metode yang digunakan adalah R&D (penelitian dan pengembangan) dan model yang digunakan adalah model pengembangan ADDIE. Instrumen yang digunakan dalam penelitian ini adalah angket tertutup berdasarkan skala Likert, soal pre test dan post test, serta lembar observasi keterampilan proses sains siswa. Subyek penelitian adalah siswa kelas XI SMAN 1 Ngrayun. Uji validitas dilakukan dengan validasi ahli media. Hasil penelitian menunjukkan bahwa Pelontar Parabola layak digunakan, dengan skor rata-rata 7.40% ahli materi yang dengan kategori “layak” dan skor rata-rata ahli media sebesar 82,5% dengan kategori “ layak”. Hasil Uji N-Gain sebesar 0,61 dengan kategori sedang. Dapat disimpulkan bahwa Pelontar parabola yang dikembangkan layak serta dapat meningkatkan keterampilan proses sains siswa.

Kata kunci: Pelontar Parabola, Gerak Parabola, Keterampilan Proses Sains siswa

ABSTRACT

Yuyun Andika, 2023. Development of Parabolic Throwing Media to Improve Science Process Skills in Parabolic Motion Materials. Thesis. Physics Education Study Program, FKIP, Universitas PGRI Madiun. Undergraduate Program S.I. Supervisor (I) Dr. Tantri Mayasari, S.Pd., M.Pd., (II) Mislana Sasono, S.Pd., Si., M.Pd.

Improving the quality of education in Indonesia aims to increase the potential of human resources through government cooperation and curriculum changes, teacher empowerment, and innovative learning methods. The aim of this research is to develop learning media, namely the development of parabolic throwing media to improve students' science process skills on parabolic motion material. . The method used is R&D (research and development) and the model used is the ADDIE development model. The instruments used in this research were closed questionnaires based on a Likert scale, pre-test and post-test questions, as well as observation sheets on students' science process skills. The research subjects were class XI students of SMAN 1 Ngrayun. Validity testing was carried out by validating media experts. The research results show that the Parabola Thrower is suitable for use, with an average score of 7.40% for material experts in the "feasible" category and an average score of media experts of 82.5% in the "appropriate" category. The N-Gain Test results were 0.61 in the medium category. It can be concluded that the parabolic thrower developed is feasible and can improve students' science process skills.

Keywords: *Parabolic Thrower, Parabolic Motion, Students' Science Process Skills*