

ABSTRAK

Wahyu Hidayat. 2026. Efektivitas Model Pembelajaran *Discovery Learning* Berbantuan Media *Phet Simulation* Terhadap Hasil Belajar IPAS Kelas IV SD. Skripsi. Pendidikan Guru Sekolah Dasar, Fakultas Keguruan dan Ilmu Pendidikan, Universitas PGRI Madiun. Pembimbing (I) Dr. Endang Sri Maruti, S.Pd., M.Pd., (II) Vivi Rulviana, S.Pd., M.Pd.

Penelitian ini bertujuan untuk mengetahui efektivitas model pembelajaran *Discovery Learning* berbantuan media *Phet Simulation* terhadap hasil belajar IPAS siswa kelas IV SD. Penelitian ini menggunakan pendekatan kuantitatif dengan jenis *quasi experimental design* dan desain penelitian *nonequivalent control group design*. Sampel penelitian adalah siswa kelas IV SDN Jatirejo sebagai kelas eksperimen dan siswa kelas IV SDN Ngadirejo 02 sebagai kelas kontrol. Teknik pengumpulan data menggunakan tes berupa *pre-test* dan *post-test*, sedangkan data dianalisis melalui uji normalitas, uji homogenitas, dan uji t. Hasil penelitian menunjukkan bahwa nilai rata-rata *post-test* kelas eksperimen sebesar 79,00 lebih tinggi dibandingkan kelas kontrol sebesar 56,36. Hasil uji t menunjukkan nilai signifikansi sebesar $0,000 < 0,05$ sehingga H_0 ditolak dan H_a diterima. Dengan demikian, terdapat perbedaan yang signifikan antara hasil belajar siswa pada kelas eksperimen dan kelas kontrol. Kesimpulan penelitian ini menunjukkan bahwa model pembelajaran *Discovery Learning* berbantuan media *PhEt Simulation* efektif terhadap hasil belajar IPAS siswa kelas IV SD pada materi gaya dan gerak.

Kata Kunci : *Discovery Learning*, *PhET Simulation*, hasil belajar, IPAS, Sekolah Dasar

ABSTRAC

Wahyu Hidayat. 2026. The Effectiveness of the Discovery Learning Model Assisted by PhET Simulation Media on Fourth-Grade Elementary School Students' Science and Social Studies IPAS Learning Outcomes. Undergraduate Thesis. Department of Elementary School Teacher Education, Faculty of Teacher Training and Education, Universitas PGRI Madiun. Advisor (I) Dr. Endang Sri Maruti, S.Pd., M.Pd. Advisor (II) Vivi Rulviana, S.Pd., M.Pd.

The purpose of this study was to determine the effectiveness of the Discovery Learning model assisted by PhET Simulation media on the learning outcomes of fourth-grade elementary school students in IPAS. This study employed a quantitative approach using a quasi-experimental method with a nonequivalent control group design. The research sample consisted of fourth-grade students at SDN Jatirejo as the experimental class and fourth-grade students at SDN Ngadirejo 02 as the control class. Data were collected through pre-tests and post-tests and analyzed using normality, homogeneity, and independent sample t-tests. The results showed that the experimental class achieved a higher mean post-test score 79.00 than the control class 56.36. The independent sample t-test revealed a significance value of $0.000 < 0.05$, indicating that the null hypothesis H_0 was rejected and the alternative hypothesis H_a was accepted. Therefore, there was a significant difference in learning outcomes between the experimental and control classes. It can be concluded that the Discovery Learning model assisted by PhET Simulation media is effective in improving the IPAS learning outcomes of fourth-grade elementary school students on the topic of force and motion.

Keywords : Discovery Learning, PhET Simulation, learning outcomes, Science and Social Studies (IPAS), elementary school.