

ABSTRAK

Levia Tivani Yahya. 2026. *Pengaruh Penggunaan Media Pembelajaran PhET Simulation dengan Model Discovery Learning Terhadap Prestasi Belajar Pada Mata Pelajaran IPAS Siswa Kelas V SDN Winong 02*. Skripsi. Program Studi Pendidikan Guru Sekolah Dasar. FKIP. Universitas PGRI Madiun. Pembimbing (I) Dr. Ibadullah Mawalwi, M.Pd., (II) Dr. Sri Budyartati, S.S, M.Pd

Penelitian ini bertujuan untuk mengetahui pengaruh penggunaan media pembelajaran PhET Simulation dengan model Discovery Learning terhadap prestasi belajar IPAS siswa kelas V SDN Winong 02. Penelitian ini menggunakan pendekatan kuantitatif dengan jenis penelitian eksperimen. Populasi penelitian berjumlah 29 siswa kelas V SDN Winong 02 dengan teknik pengambilan sampel *nonprobability sampling*. Teknik pengumpulan data dilakukan melalui tes berupa *pretest* dan *posttest* yang terdiri atas 15 soal pilihan ganda dan 4 soal esai. Analisis data dilakukan menggunakan aplikasi SPSS melalui uji normalitas dan uji hipotesis *paired-sample t-test*. Hasil penelitian menunjukkan bahwa penggunaan media pembelajaran PhET Simulation dengan model Discovery Learning berpengaruh terhadap prestasi belajar siswa. Sebelum diberikan perlakuan, persentase ketuntasan belajar siswa sebesar 3,45%, sedangkan 96,55% siswa belum mencapai ketuntasan. Setelah diberikan perlakuan, persentase ketuntasan meningkat menjadi 93,10% dengan 27 siswa memperoleh nilai di atas 70, sedangkan 2 siswa atau 6,90% memperoleh nilai di bawah 70. Hasil uji *paired-sample t-test* menunjukkan nilai Sig. (2-tailed) < 0,001 (< 0,05), sehingga H_0 ditolak dan H_a diterima.

Kata Kunci: phet simulation, discovery learning, prestasi belaja, IPAS

ABSTRACT

Levia Tivani Yahya. 2026. *The Effect of Using PhET Simulation Learning Media with the discovery Learning Model on The Learning Achievement in IPAS of Fifth-Grade Students at SDN Winong 02*. Skripsi. Program Studi Pendidikan Guru Sekolah Dasar. FKIP. Universitas PGRI Madiun. Pembimbing (I) Dr. Ibadullah Mawalwi, M.Pd., (II) Dr. Sri Budyartati, S.S, M.Pd

This study aims to determine the effect of using the PhET Simulation learning media with the Discovery Learning model on the IPAS academic achievement of fifth-grade students at SDN Winong 02. This study employs a quantitative approach using an experimental research design. The study population consisted of 29 fifth-grade students at SDN Winong 02, and nonprobability sampling was used. Data were collected through pretests and posttests consisting of 15 multiple-choice questions and 4 essay questions. Data analysis was conducted using SPSS software, including a normality test and a paired-sample t-test. The results indicate that the use of the PhET Simulation learning media with the Discovery Learning model has an effect on students' academic achievement. Before the intervention, the percentage of students who met the learning mastery criteria was 3.45%, while 96.55% of students had not yet achieved mastery. After the intervention, the mastery rate increased to 93.10%, with 27 students scoring above 70, while 2 students (6.90%) scored below 70. The results of the paired-sample t-test showed a Sig. (2-tailed) value of < 0.001 (< 0.05), so H_0 was rejected and H_a was accepted.

Keywords: PhET Simulation, Discovery Learning, Learning Achievement, IPAS