

ABSTRACT

Asyva Hanani Fadhilah, 2026. The Effect of the Teams Games Tournament (TGT) Cooperative Learning Model Assisted by PhET Colorado Media on the Numeracy Skills of Grade IV Elementary School Students. Undergraduate Thesis. Primary School Teacher Education Study Program, Faculty of Teacher Training and Education (FKIP), Universitas PGRI Madiun. Supervisors: (I) Dr. Octarina Hidayatus Sholikhah, M.Pd., (II) Dr. Fida Rahmantika Hadi, M.Pd.

This study aims to determine the influence of the Teams Games Tournament (TGT) cooperative learning model assisted by PhET Colorado media on the numeracy ability of fourth grade elementary school students. This research uses quantitative approach with a quasi-experimental type using a Posttest Only Control Group Design. The population in this study were fourth-grade students in Cluster 8, Madiun Regency, totaling 59 students. The sampling technique used cluster random sampling, obtaining a sample 25 students consisting of 15 students from SDN Sirapan 01 the experimental class and 10 students from SDN Sirapan 02 as the control class. Data collection techniques used tests and documentation. Data analysis techniques included prerequisite tests (normality and homogeneity tests), balance tests, and hypothesis testing using independent sample t-test. The results showed that average posttest score of the experimental class was 83.07, higher than the control class which obtained an average score of 73.60. The independent sample t-test results obtained significance value of $0.000 < 0.05$, so H_0 is rejected and H_a is accepted. The conclusion of this study is that there is a significant influence of the TGT cooperative learning model assisted by PhET Colorado media on the numeracy ability of fourth-grade elementary school students.

Keywords: Teams Games Tournament (TGT), PhET Colorado, Numeracy Ability

ABSTRAK

Asyva Hanani Fadhillah, 2026. Pengaruh Model Pembelajaran Kooperatif Tipe Teams Games Tournament (TGT) berbantuan media PhET Colorado terhadap Kemampuan Numerasi Siswa Kelas IV SD, Skripsi. Program Studi Pendidikan Guru Sekolah Dasar, FKIP, Universitas PGRI Madiun, Pembimbing (I) Dr. Octarina Hidayatus Sholikhah, M.Pd., (II) Dr. Fida Rahmantika Hadi, M.Pd

Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran *kooperatif Tipe Teams Games Tournament* (TGT) berbantuan media *PhET Colorado* terhadap kemampuan numerasi siswa kelas IV SD. Penelitian ini menggunakan pendekatan kuantitatif dengan jenis eksperimen semu (*quasi-experimental*) dan desain *Posttest Only Control Group Design*. Populasi dalam penelitian ini adalah siswa kelas IV di Gugus 8, Kabupaten Madiun, yang berjumlah 59 siswa. Teknik pengambilan sampel menggunakan *cluster random sampling*, sehingga diperoleh sampel sebanyak 25 siswa yang terdiri dari 15 siswa SDN Sirapan 01 sebagai kelas eksperimen dan 10 siswa SDN Sirapan 02 sebagai kelas kontrol. Teknik pengumpulan data menggunakan tes dan dokumentasi. Teknik analisis data meliputi uji prasyarat (uji normalitas dan homogenitas), uji keseimbangan, dan uji hipotesis menggunakan *independent sample t-test*. Hasil penelitian menunjukkan bahwa rata-rata nilai posttest kelas eksperimen adalah 83,07, lebih tinggi dibandingkan kelas kontrol yang memperoleh rata-rata nilai 73,60. Hasil *independent sample t-test* menunjukkan nilai signifikansi $0,000 < 0,05$, sehingga H_0 ditolak dan H_a diterima. Kesimpulan penelitian ini adalah terdapat pengaruh yang signifikan dari model pembelajaran kooperatif TGT berbantuan media PhET Colorado terhadap kemampuan numerasi siswa kelas IV sekolah dasar.

Kata kunci : Teams Games Tournament (TGT), PhET Colorado, Kemampuan Numerasi