

Muhaimin. 2025. Penerapan Model *RADEC* Berbantuan Infografis untuk Meningkatkan Kemampuan Berpikir Kritis Siswa. Skripsi, Program Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing: Ana Yuniasti Retno Wulandari.

ABSTRAK

Penelitian ini dilakukan untuk mengetahui perbedaan kemampuan berpikir kritis siswa antara kelas eksperimen dengan kelas kontrol, mengetahui peningkatan kemampuan berpikir kritis siswa setelah penerapan model *RADEC*, mengetahui keterlaksanaan model pembelajaran *RADEC* berbantuan infografis, dan mengetahui respons siswa terhadap penerapan model *RADEC*. Jenis penelitian menggunakan kuantitatif dengan metode eksperimen. Desain penelitian *Quasi experiment* dengan teknik *Nonequivalent control group design*. Sampel penelitian diambil dari dua kelas yaitu kelas VIII D sebagai kelas kontrol dan kelas VIII F sebagai kelas eksperimen dengan masing-masing kelas berjumlah 28 siswa. Penelitian dilaksanakan di SMPN 1 Tanjung Bumi pada semester genap tahun pelajaran 2024/2025. Teknik pengumpulan data menggunakan tes, observasi, angket dan dokumentasi. Hasil penelitian dapat disimpulkan bahwa: (1) Hasil uji hipotesis uji *T-Independent* menghasilkan nilai signifikansi sebesar $0,00 < 0,05$ sehingga ada perbedaan kemampuan berpikir kritis siswa pada kelas eksperimen yang menggunakan model *RADEC* berbantuan infografis dibandingkan dengan kelas kontrol. (2) Adanya peningkatan kemampuan berpikir kritis diperoleh rata-rata skor *N-Gain* pada kelas eksperimen sebesar 0,65 dalam kategori sedang. (3) Hasil persentase keterlaksanaan pembelajaran menggunakan model *RADEC* berbantuan infografis memperoleh rata-rata sebesar 100% dengan kategori sangat baik. (4) Respons siswa terhadap model *RADEC* berbantuan infografis memperoleh rata-rata 89,74% dengan kategori sangat baik.

Kata Kunci: Infografis, kemampuan berpikir kritis, *RADEC*, struktur bumi dan perkembangannya.

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ABSTRACT

This research was conducted to determine the differences in students' critical thinking skills between the experimental class and the control class, to determine the increase in students' critical thinking skills after the implementation of the RADEC model, to determine the implementation of the RADEC learning model assisted by infographics, and to determine students' responses to the implementation of the RADEC model. The type of research used quantitative with experimental methods. Quasi-experimental research design with Nonequivalent control group design technique. The research sample was taken from two classes, namely class VIII D as the control class and class VIII F as the experimental class with 28 students in each class. The research was conducted at SMPN 1 Tanjung Bumi in the even semester of the 2024/2025 academic year. Data collection techniques used tests, observations, questionnaires, and documentation. The results of the study can be concluded that: (1) The results of the T-Independent hypothesis test produced a significance value of $0.00 < 0.05$ so that there was a difference in students' critical thinking skills in the experimental class using the RADEC model assisted by infographics compared to the control class. (2) There was an increase in critical thinking skills with an average N-Gain score in the experimental class of 0.65 in the moderate category. (3) The percentage results of the implementation of learning using the RADEC model assisted by infographics obtained an average of 100% with a very good category. (4) Student responses to the RADEC model assisted by infographics obtained an average of 89.74% with a very good category.

Keywords: *Infographics, critical thinking skills, RADEC, earth structure and, development.*