

Elicha Dwi Satriana. 2026. *Penerapan Discovery Learning Berbantuan Video TikTok Edukatif untuk Meningkatkan Keterampilan Berpikir Kritis Siswa*. Skripsi, Program Studi Pendidikan IPA, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunodjoyo Madura. Pembimbing: Yunin Hidayati.

ABSTRAK

Keterampilan berpikir kritis merupakan salah satu kompetensi penting yang masih tergolong rendah pada siswa SMP. Rendahnya keterampilan berpikir kritis dipengaruhi oleh pembelajaran yang berpusat pada guru dan kurang optimalnya pemanfaatan media digital yang sesuai dengan karakteristik siswa. Penelitian ini bertujuan untuk mengetahui pengaruh, peningkatan, keterlaksanaan pembelajaran, dan respons siswa terhadap penerapan model *discovery learning* berbantuan video TikTok edukatif pada materi Bumi dan Tata Surya. Penelitian ini menggunakan metode kuantitatif dengan jenis penelitian *quasi experiment* dan desain *nonequivalent control group design*. Penelitian dilaksanakan di SMP Negeri 1 Arosbaya dengan sampel siswa kelas VII-F sebagai kelas eksperimen dan VII-H sebagai kelas kontrol yang masing-masing berjumlah 28 siswa. Teknik pengumpulan data menggunakan tes keterampilan berpikir kritis, lembar observasi keterlaksanaan pembelajaran, dan angket respons siswa. Analisis data dilakukan menggunakan uji normalitas, uji homogenitas, uji *independent sample t-test*, dan uji N-Gain. Hasil penelitian menunjukkan bahwa terdapat pengaruh penerapan model *discovery learning* berbantuan video TikTok edukatif terhadap keterampilan berpikir kritis siswa dengan nilai signifikansi *posttest* sebesar 0,000. Keterampilan berpikir kritis siswa mengalami peningkatan dengan rata-rata N-Gain sebesar 0,57 yang termasuk kategori sedang. Keterlaksanaan pembelajaran memperoleh persentase rata-rata sebesar 100% dengan kategori sangat baik. Respons siswa menunjukkan sangat baik dengan rata-rata skor 83,94%. Dengan demikian penerapan model *discovery learning* berbantuan video TikTok edukatif efektif digunakan untuk meningkatkan keterampilan berpikir kritis siswa pada materi Bumi dan Tata Surya.

Kata kunci: *discovery learning, video TikTok edukatif, keterampilan berpikir kritis*

Elicha Dwi Satriana. 2026. *Implementation of Discovery Learning Assisted by Educational TikTok Videos to Improve Students' Critical Thinking Skills*. Thesis, Science Education Study Program, Faculty of Teacher Training and Education, Trunodjoyo University, Madura. Advisor: Yunin Hidayati.

ABSTRACT

Critical thinking skills are one of the important competencies that remain relatively low among junior high school students. This condition is influenced by teacher-centered learning and the limited use of digital media that align with students' characteristics. This study aimed to determine the effect, improvement, learning implementation, and student responses to the application of the discovery learning model assisted by educational TikTok videos on the topic of Earth and the Solar System. The study employed a quantitative approach with a quasi-experimental method using a nonequivalent control group design. The research was conducted at SMP Negeri 1 Arosbaya with 28 students of class VII-F as the experimental group and 28 students of class VII-H as the control group. Data were collected through critical thinking skills tests, learning implementation observation sheets, and student response questionnaires. Data analysis included normality, homogeneity, independent sample t-test, and N-Gain tests. The results showed a significant effect of the discovery learning model assisted by educational TikTok videos on students' critical thinking skills, with a posttest significance value of 0.000. Students' critical thinking skills improved with an average N-Gain score of 0.57, categorized as moderate. Learning implementation achieved an average percentage of 100%, categorized as very good, while student responses reached an average score of 83.94%, also categorized as very good. Therefore, the application of the discovery learning model assisted by educational TikTok videos is effective in improving students' critical thinking skills on the topic of Earth and the Solar System.

Keywords: *discovery learning, educational TikTok videos, critical thinking skills*