

ABSTRAK

Tya Suci Ramadhani, 2026. **EFEKTIVITAS METODE SOCRATIC QUESTIONING BERBANTUAN ZEP QUIZ DALAM MENINGKATKAN KETERAMPILAN BERPIKIR KRITIS PESERTA DIDIK PADA MATERI PEMANASAN GLOBAL**

Penelitian ini dilatarbelakangi oleh rendahnya keterampilan berpikir kritis peserta didik pada materi pemanasan global yang didukung berdasarkan data studi pendahuluan yang menyatakan bahwa keterampilan berpikir kritis peserta didik masih tergolong rendah yaitu 51,24%. Peneliti mengatasi masalah tersebut dengan metode *Socratic Questioning* berbantuan Zep Quiz yang dapat membantu peserta didik mengkonstruksi pengetahuannya sendiri. Tujuan penelitian ini yaitu mengetahui efektivitas metode *Socratic Questioning* berbantuan Zep Quiz dalam meningkatkan keterampilan berpikir kritis peserta didik pada materi pemanasan global. Metode penelitian yang digunakan adalah kuasi eksperimen dengan desain penelitian *nonequivalent control group design*. Populasi dalam penelitian yaitu seluruh kelas X SMAN 3 Tasikmalaya dengan jumlah peserta didik sebanyak 460 orang. Sampel dipilih menggunakan teknik *cluster random sampling* diperoleh kelas X-4 sebagai kelas eksperimen (34 peserta didik) dan kelas X-5 sebagai kelas kontrol (34 peserta didik). Untuk mengukur keterampilan berpikir kritis peserta didik dilakukan melalui *pretest* dan *posttest* berupa 8 soal uraian mencakup lima indikator keterampilan berpikir kritis. Analisis data meliputi uji normalitas, uji homogenitas, serta uji hipotesis. Hasil uji hipotesis menunjukkan bahwa $t_{hitung} > t_{tabel}$ ($13,62 > 1,67$) sehingga H_a diterima dan H_0 ditolak. Dengan demikian, pada taraf signifikansi 95% dapat disimpulkan bahwa metode *Socratic Questioning* berbantuan Zep Quiz efektif dalam meningkatkan keterampilan berpikir kritis peserta didik pada materi pemanasan global. Hal ini selaras dengan perolehan rata-rata *N-Gain* (%) pada kelas eksperimen sebesar 64% kategori sedang dan pada kelas kontrol sebesar 30% kategori rendah. Tingkat efektivitas dapat dilihat dari nilai *effect size* yang dihitung berdasarkan rata-rata *N-Gain* kedua kelas, diperoleh sebesar 3,26 dengan kategori efek sangat besar.

Kata kunci: keterampilan berpikir kritis, metode *socratic questioning*, zep quiz, pemanasan global.

ABSTRACT

Tya Suci Ramadhani, 2026. **EFFECTIVENESS OF THE SOCRATIC QUESTIONING METHOD ASSISTED BY ZEP QUIZ IN IMPROVING STUDENTS' CRITICAL THINKING SKILLS ON GLOBAL WARMING MATERIAL**

This research is motivated by the low critical thinking skills of students on global warming material which is supported by preliminary study data which states that students' critical thinking skills are still relatively low at 51.24%. Researchers overcome this problem by using the Socratic Questioning method assisted by Zep Quiz which can help students construct their own knowledge. The purpose of this study is to determine the effectiveness of the Socratic Questioning method assisted by Zep Quiz in improving students' critical thinking skills on global warming material. A quasi-experimental method with a non-equivalent control group design was employed. The study population consisted of all Grade X classes at SMAN 3 Tasikmalaya, comprising 460 students. Cluster random sampling was used to select the sample, resulting in Class X-4 as the experimental group (34 students) and Class X-5 as the control group (34 students). Students' critical thinking skills were measured via pre-tests and post-tests consisting of eight essay questions covering five critical thinking indicators. Data analysis included normality tests, homogeneity tests, and hypothesis testing. The hypothesis test results showed that $t_{\text{statistic}} > t_{\text{table}}$ ($13.62 > 1.67$), indicating that H_a was accepted and H_0 was rejected. Therefore, at a 95% significance level, it can be concluded that the Socratic Questioning method assisted by Zep Quiz was effective in improving students' critical thinking skills on the topic of global warming. This finding was supported by the average N-Gain score of 64% (moderate category) in the experimental class and 30% (low category) in the control class. Furthermore, the calculated effect size based on the average N-Gain scores of both groups was 3.26, indicating a very large effect.

Keywords: critical thinking skills, socratic questioning method, zep quiz, global warming.