

ABSTRAK

Dwi Hanafi. (2025). Peningkatan Kemampuan Berpikir Kritis Matematis Dan *Self-confidence* Siswa SMA Melalui Model Pembelajaran *Connecting, Organizing, Reflecting, Extending* (CORE) Berbantuan *Quizizz*

Kemampuan berpikir kritis matematis dan *Self-confidence* merupakan salah satu aspek penting dalam keberhasilan pembelajaran matematika khususnya pada jenjang SMA. Namun pada kenyataannya, kemampuan berpikir kritis matematis dan *Self-confidence* siswa masih tergolong rendah. Penerapan model pembelajaran *Connecting, Organizing, Reflecting, Extending* (CORE) berbantuan *Quizizz* menjadi alternatif Solusi untuk meningkatkan kedua aspek tersebut. Penelitian ini bertujuan untuk; (1) mengetahui apakah peningkatan kemampuan berpikir kritis matematis siswa yang memperoleh model pembelajaran *Connecting, Organizing, Reflecting, Extending* (CORE) berbantuan *Quizizz* lebih tinggi dibandingkan siswa yang memperoleh model pembelajaran konvensional; (2) mengetahui apakah *Self-confidence* siswa yang memperoleh model pembelajaran *Connecting, Organizing, Reflecting, Extending* (CORE) berbantuan *Quizizz* lebih baik dibandingkan model pembelajaran konvensional; (3) mengetahui apakah terdapat korelasi antara kemampuan berpikir kritis matematis dan *Self-confidence* siswa SMA yang memperoleh model pembelajaran *Connecting, Organizing, Reflecting, Extending* (CORE) berbantuan *Quizizz*. Metode yang digunakan adalah kuasi eksperimen dengan desain *nonequivalent control group design*. Populasi dalam penelitian ini adalah seluruh siswa kelas XI SMA Pasundan 8 Bandung. Sampel penelitiannya, kelas XI F7 sebagai kelas eksperimen yang memperoleh model pembelajaran *Connecting, Organizing, Reflecting, Extending* (CORE) berbantuan *Quizizz* dan kelas XI F6 sebagai kelas kontrol yang memperoleh model pembelajaran konvensional. Instrumen yang digunakan dalam penelitian ini berupa soal uraian tes kemampuan berpikir kritis matematis serta angket *Self-confidence*. Hasil penelitian menunjukkan bahwa; (1) peningkatan kemampuan berpikir kritis matematis siswa yang memperoleh model pembelajaran CORE berbantuan *Quizizz* lebih tinggi dibandingkan siswa yang memperoleh model pembelajaran konvensional; (2) *Self-confidence* siswa yang memperoleh model pembelajaran CORE berbantuan *Quizizz* lebih baik dibandingkan model pembelajaran konvensional; (3) terdapat korelasi positif antara kemampuan berpikir kritis matematis dan *Self-confidence* siswa yang memperoleh model pembelajaran CORE berbantuan *Quizizz*.

Kata Kunci: kemampuan berpikir kritis matematis, *Self-confidence*, model pembelajaran *Connecting, Organizing, Reflecting, Extending* (CORE), model pembelajaran CORE, *Quizizz*

ABSTRACT

Dwi Hanafi. (2025). *Improving Mathematical Critical Thinking Skills and Self-confidence of High School Students Through Connecting, Organizing, Reflecting, Extending (Core) Learning Model Assisted by Quizizz*

Mathematical critical thinking skills and Self-confidence are essential aspects in the success of mathematics learning, particularly at the senior high school level. However, in reality, students' mathematical critical thinking skills and Self-confidence are still relatively low. The implementation of the Connecting, Organizing, Reflecting, Extending (CORE) learning model assisted by Quizizz serves as an alternative solution to improve both aspects. This study aims to: (1) determine whether the improvement in mathematical critical thinking skills of students who received the Quizizz-assisted CORE learning model is higher than that of students who received the conventional learning model; (2) determine whether the Self-confidence of students who received the Quizizz-assisted CORE learning model is better than that of students who received the conventional learning model; and (3) investigate whether there is a correlation between mathematical critical thinking skills and Self-confidence of high school students who received the Quizizz-assisted CORE learning model. This study employed a quasi-experimental method with a nonequivalent control group design. The population of the study consisted of all eleventh-grade students at SMA Pasundan 8 Bandung. The research sample included class XI F7 as the experimental class, which was taught using the Quizizz-assisted CORE learning model, and class XI F6 as the control class, which was taught using the conventional learning model. The instruments used in this study were a mathematical critical thinking skills test in the form of descriptive questions and a Self-confidence questionnaire. The results of the study show that: (1) the improvement in mathematical critical thinking skills of students who received the Quizizz-assisted CORE learning model was higher than that of students who received the conventional learning model; (2) the Self-confidence of students who received the Quizizz-assisted CORE learning model was better than that of students who received the conventional learning model; and (3) there was a positive correlation between mathematical critical thinking skills and Self-confidence of students who received the Quizizz-assisted CORE learning model.

Keywords: *mathematical critical thinking skills, Self-confidence, Connecting, Organizing, Reflecting, Extending (CORE) learning model, CORE learning model, Quizizz*

RINGKESAN

Dwi Hanafi (2025). *paningkatan kamampuh mikir kritis matematis sareng kapercayaan diri Siswa SMA ngagunakeun modél pangajaran Connecting, Organizing, Reflecting, Extending (CORE) dibantuan ku Quizizz.*

Kamampuh mikir kritis matematis sareng kapercayaan diri téh mangrupikeun aspék penting dina kasuksésan diajar matematika, utamina dina tingkat SMA. Sanaos kitu, dina kanyataanana, kamampuh mikir kritis matematis jeung kapercayaan diri siswa masih kénéh kurang. Penerapan modél pangajaran Connecting, Organizing, Reflecting, Extending (CORE) anu dibantuan ku Quizizz jadi salah sahiji solusi alternatif pikeun ningkatkeun dua aspék éta. Panalungtikan ieu boga tujuan pikeun: (1) nangtukeun naha aya paningkatan kamampuh mikir kritis matematis siswa anu meunang modél pangajaran CORE dibantuan ku Quizizz leuwih gedé tibatan siswa anu meunang modél pangajaran konvensional; (2) nangtukeun naha kapercayaan diri siswa anu meunang modél pangajaran CORE dibantuan ku Quizizz leuwih hadé tibatan siswa anu meunang modél pangajaran konvensional; sarta (3) nalungtik aya henteu hubungan antara kamampuh mikir kritis matematis jeung kapercayaan diri siswa SMA anu meunang modél pangajaran CORE dibantuan ku Quizizz. Méthode anu dipaké dina panalungtikan ieu nyaéta kuasi ékspérimén kalayan desain nonequivalent control group design. Populasi dina panalungtikan ieu nyaéta sadaya siswa kelas XI SMA Pasundan 8 Bandung. Sampel panalungtikan nyaéta kelas XI F7 salaku kelas ékspérimén anu diajar ngagunakeun modél CORE dibantuan ku Quizizz, sarta kelas XI F6 salaku kelas kontrol anu diajar ngagunakeun modél pangajaran konvensional. Instrumén anu dipaké dina panalungtikan ieu ngawengku soal uraian pikeun nguji kamampuh mikir kritis matematis jeung angkét pikeun ngukur kapercayaan diri siswa. Hasil panalungtikan nunjukkeun yén: (1) paningkatan kamampuh mikir kritis matematis siswa anu meunang modél CORE dibantuan ku Quizizz leuwih gedé tibatan siswa anu meunang modél pangajaran konvensional; (2) kapercayaan diri siswa anu meunang modél CORE dibantuan ku Quizizz leuwih hadé tibatan siswa anu meunang modél pangajaran konvensional; sarta (3) aya hubungan anu positif antara kamampuh mikir kritis matematis jeung kapercayaan diri siswa anu meunang modél CORE dibantuan ku Quizizz.

Kecap Konci: *kamampuh mikir kritis matematis, kapercayaan diri, modél pangajaran Connecting, Organizing, Reflecting, Extending (CORE), modél pangajaran (CORE), Quizizz*