

ABSTRAK

Feby Febriyany Putri. (2026). **Model *Discovery Learning* berbantuan *Spreadsheet* Berorientasi pada Kemampuan Berpikir Kritis Matematis dan *Self-Efficacy* Murid SMP.**

Kemampuan berpikir kritis matematis dan *self-efficacy* merupakan dua aspek penting dalam pembelajaran matematika. Namun, realitas di lapangan menunjukkan bahwa keduanya masih tergolong rendah. Penelitian ini bertujuan untuk: (1) menganalisis kemampuan berpikir kritis matematis antara murid SMP yang memperoleh model *discovery learning* berbantuan *spreadsheet* dan murid SMP yang memperoleh model pembelajaran konvensional secara kuantitatif dan kualitatif. (2) menganalisis *self-efficacy* antara murid SMP yang memperoleh model *discovery learning* berbantuan *spreadsheet* dan murid SMP yang memperoleh model pembelajaran konvensional. (3) menganalisis korelasi antara kemampuan berpikir kritis matematis dengan *self-efficacy* murid SMP yang memperoleh model *discovery learning* berbantuan *spreadsheet*. Penelitian ini menggunakan *Mix Methods* tipe *Embedded design*. Metode penelitian yang digunakan adalah quasi eksperimen dengan *non-equivalent control design*. Subjek penelitian ini melibatkan 47 murid kelas VIII di SMP Bina Dharma 2 Bandung yang terbagi ke dalam 25 murid kelas eksperimen dan 22 murid kelas kontrol. Instrumen penelitian berupa tes uraian kemampuan berpikir kritis matematis, angket *self-efficacy* yang telah diuji validitas dan reliabilitasnya dan hasil wawancara pada tes kemampuan berpikir kritis matematis. Hasil penelitian menunjukkan bahwa: (1) kemampuan berpikir kritis matematis murid yang memperoleh pembelajaran dengan model *Discovery Learning* berbantuan *Spreadsheet* lebih baik dibandingkan murid yang memperoleh pembelajaran konvensional. (2) *self-efficacy* murid dengan model *Discovery Learning* berbantuan *Spreadsheet* lebih baik dibandingkan murid dengan model pembelajaran konvensional. (3) terdapat korelasi positif antara kemampuan berpikir kritis matematis dan *self-efficacy* murid yang memperoleh model *Discovery Learning* berbantuan *Spreadsheet*.

Kata Kunci: Berpikir Kritis Matematis, *Self-Efficacy*, Model *Discovery Learning*, *Spreadshet*

ABSTRACT

Febby Febriyany Putri. (2026). ***Discovery Learning Model Assisted by Spreadsheet Oriented toward Mathematical Critical Thinking Ability and Self-Efficacy of Junior High School Students.***

Mathematical critical thinking skills and self-efficacy are two crucial aspects of mathematics learning. However, the reality in the field shows that both are still relatively low. This study aims to: (1) analyze the mathematical critical thinking skills of junior high school students who received the spreadsheet-assisted discovery learning model versus those who received the conventional learning model, both quantitatively and qualitatively; (2) analyze the self-efficacy of junior high school students who received the spreadsheet-assisted discovery learning model versus those who received the conventional learning model; and (3) analyze the correlation between mathematical critical thinking skills and the self-efficacy of junior high school students who received the spreadsheet-assisted discovery learning model. The research method used was a quasi-experiment with a non-equivalent control group design. The subjects of this study involved 47 eighth-grade students at SMP Bina Dharma 2 Bandung, divided into 25 students in the experimental class and 22 students in the control class. The research instruments consisted of a descriptive test of mathematical critical thinking skills, a self-efficacy questionnaire that had been tested for validity and reliability, and interview results regarding the mathematical critical thinking skills test. The results of the study indicate that: (1) the mathematical critical thinking skills of students who received instruction using the spreadsheet-assisted Discovery Learning model were better than those of students who received conventional instruction; (2) the self-efficacy of students using the spreadsheet-assisted Discovery Learning model was better than that of students using the conventional learning model; (3) there is a positive correlation between the mathematical critical thinking skills and the self-efficacy of students who received the spreadsheet-assisted Discovery Learning model.

Keywords: *Mathematical Critical Thinking, Self-Efficacy, Discovery Learning Model, Spreadsheet.*

RINGKESAN

Feby Febriyany Putri. (2026). *Modél Discovery Learning dibantuan ku Spreadsheet anu Diarahkeun kana Kamampuh Mikir Kritis Matematis jeung Self-Efficacy Murid SMP.*

Kamampuh mikir kritis matematis sarta self-efficacy mangrupa dua aspék penting dina pangajaran matematika. Nanging, kanyataan di lapangan némbongkeun yén duanana masih kagolong rendah. Panalungtikan ieu boga tujuan pikeun: (1) nganalisis kamampuh mikir kritis matematis antara murid SMP anu meunang modél discovery learning dibantuan spreadsheet jeung murid SMP anu meunang modél pangajaran konvensional sacara kuantitatif jeung kualitatif. (2) nganalisis self-efficacy antara murid SMP anu meunang modél discovery learning dibantuan spreadsheet jeung murid SMP anu meunang modél pangajaran konvensional. (3) nganalisis korélasi antara kamampuh mikir kritis matematis jeung self-efficacy murid SMP anu meunang modél discovery learning dibantuan spreadsheet. Méthode panalungtikan anu digunakeun nyaéta quasi eksperimen kalayan non-equivalent control design. Subjék panalungtikan ieu ngalibatkeun 47 murid kelas VIII di SMP Bina Dharma 2 Bandung anu kabagi jadi 25 murid kelas ékspérimén jeung 22 murid kelas kontrol. Instrumén panalungtikan mangrupa tés uraian kamampuh mikir kritis matematis, angkét self-efficacy anu geus diuji validitas jeung réliabilitasna, sarta hasil wawancara dina tés kamampuh mikir kritis matematis. Hasil panalungtikan némbongkeun yén: (1) kamampuh mikir kritis matematis murid anu meunang pangajaran ku modél Discovery Learning dibantuan Spreadsheet leuwih hadé dibandingkeun murid anu meunang pangajaran konvensional. (2) self-efficacy murid kalayan modél Discovery Learning dibantuan Spreadsheet leuwih hadé dibandingkeun murid kalayan modél pangajaran konvensional. (3) aya korélasi positif antara kamampuh mikir kritis matematis jeung self-efficacy murid anu meunang modél Discovery Learning dibantuan Spreadsheet.

Kecap Konci: Mikir Kritis Matematis, Self-Efficacy, Modél Discovery Learning, Spreadsheet.