

ABSTRAK

Siti Rahmah: Pengaruh Model Pembelajaran *Search, Solve, Create, and Share* Berbantuan Padlet Terhadap Kemampuan Penalaran dan Kolaborasi Matematis Siswa. **Program Studi Pendidikan Matematika FKIP Universitas Malikussaleh, 2026**

Penyebab rendahnya kemampuan penalaran dan kolaborasi siswa dipengaruhi oleh proses pembelajaran yang masih didominasi oleh peran guru, serta minimnya keterlibatan siswa secara aktif maupun dukungan unsur pembelajaran lain yang dapat mendorong interaksi, partisipasi, dan keaktifan siswa selama proses belajar. Kondisi tersebut menunjukkan perlunya upaya pembelajaran yang mampu memfasilitasi pengembangan kemampuan penalaran dan kolaborasi siswa secara lebih optimal. Salah satunya adalah penggunaan model *Search, Solve, Create, and Share*. Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran *Search, Solve, Create, and Share* berbantuan Padlet terhadap kemampuan penalaran dan kolaborasi matematis siswa kelas VIII SMP Negeri 4 Dewantara. Penelitian ini menggunakan pendekatan kuantitatif dengan metode quasi *experiment* dan desain *non-equivalent control group design*. Populasi penelitian adalah seluruh siswa kelas VIII SMP Negeri 4 Dewantara, dengan pengambilan sampel melalui teknik sampel jenuh, sehingga diperoleh kelas VIII-1 sebagai kelas eksperimen dan VIII-2 sebagai kelas kontrol. Instrumen penelitian berupa tes kemampuan penalaran dan kolaborasi matematis siswa, instrumen tes diberikan sebelum dan sesudah pembelajaran. Selain itu, digunakan pula lembar observasi untuk mengamati aktivitas guru dan siswa selama proses pembelajaran berlangsung. Pengujian hipotesis dilakukan dengan menggunakan uji korelasi *product moment* untuk mengetahui hubungan antara kemampuan penalaran dan kolaborasi matematis, dan uji *manova* untuk mengetahui pengaruh model pembelajaran *Search, Solve, Create, and Share* berbantuan Padlet terhadap kemampuan penalaran dan kolaborasi matematis siswa. Berdasarkan hasil pengujian hipotesis hubungan antara kemampuan penalaran dan kolaborasi matematis diperoleh nilai Sig. (2-tailed) sebesar 0.000. Sesuai dengan kriteria pengujian hipotesis jika Sig. (2-tailed) ≤ 0.05 , maka H_1 diterima, artinya terdapat hubungan yang signifikan antara kemampuan penalaran dengan kemampuan kolaborasi matematis siswa kelas VIII SMP Negeri 4 Dewantara. Selanjutnya, hasil pengujian hipotesis pada kemampuan penalaran dan kolaborasi matematis menggunakan uji *manova* diperoleh nilai Sig. (2-tailed) sebesar 0.000. Sesuai dengan kriteria pengujian hipotesis jika Sig. (2-tailed) ≤ 0.05 , maka H_1 diterima, artinya terdapat pengaruh yang signifikan model pembelajaran *Search, Solve Create and Share* (SSCS) berbantuan Padlet terhadap kemampuan penalaran dan kolaborasi matematis siswa kelas VIII SMP Negeri 4 Dewantara.

Kata Kunci: Kemampuan Penalaran Matematis, Kemampuan Kolaborasi Matematis, Model pembelajaran *Search, Solve, Create, and Share*, Padlet.

ABSTRACT

Siti Rahmah: *The Influence of the Search, Solve, Create, and Share Learning Model Padlet assisted on Students' Mathematical Reasoning and Collaboration Abilities.* **Malikussaleh University FKIP Mathematics Education Study Program, 2026**

The low level of students' reasoning and collaboration abilities stems from a learning process still dominated by the teacher, alongside limited active student engagement and a lack of support from other instructional elements that could foster interaction, participation, and active involvement during learning. This situation highlights the need for instructional approaches that can more effectively facilitate the development of students' reasoning and collaboration skills. One such approach is the "Search, Solve, Create, and Share" learning model. This study aims to Influence of the Search, Solve, Create, and Share Learning Model Padlet assisted on Students' Mathematical Reasoning and Collaboration Abilities of VIII students at SMP Negeri 4 Dewantara. This study employed a quantitative approach using a quasi-experimental method with a non-equivalent control group design. The study population consisted of all VIII students at SMP Negeri 4 Dewantara; a total sampling technique was used to select Class VIII-1 as the experimental group and Class VIII-2 as the control group. Research instruments included tests to measure students' mathematical reasoning and collaboration abilities, administered both before and after instruction. Additionally, observation sheets were used to monitor teacher and student activities during the learning process. Hypothesis testing involved the Product Moment correlation test to determine the relationship between mathematical reasoning and collaboration abilities, and the manova test to assess. the influence of the search, solve, create, and share learning model padlet assisted on students' mathematical reasoning and collaboration abilities. The hypothesis test regarding the relationship between mathematical reasoning and collaboration abilities yielded a Sig. (2-tailed) value of 0.000. Based on the criterion that H_1 is accepted if Sig. (2-tailed) ≤ 0.05 , the results indicate a significant relationship between mathematical reasoning and mathematical collaboration abilities among the VIII students at SMP Negeri 4 Dewantara. Furthermore, the manova test regarding the impact of the learning model yielded a Sig. (2-tailed) value of 0.000. Based on the same criterion, H_1 is accepted, indicating that the Padlet-assisted Search, Solve, Create, and Share (SSCS) learning model has a significant effect on the mathematical reasoning and collaboration abilities of the VIII students at SMP Negeri 4 Dewantara.

Keywords: *Mathematical reasoning ability, Mathematical collaboration ability, Search, Solve, Create, and Share learning model, Padlet.*