

ABSTRAK

Syakirah Nimatullah. (2026). “Penerapan Model Pembelajaran *Make a Match* Berbantuan Aplikasi *MathPapa* untuk Meningkatkan Kemampuan Penalaran Matematis dan *Self-concept* Peserta Didik”

Penelitian ini dilatarbelakangi oleh kemampuan penalaran matematis dan *self-concept* peserta didik yang masih perlu dikembangkan dalam pembelajaran matematika. Peserta didik masih mengalami kesulitan dalam memahami permasalahan, menghubungkan konsep, serta menyampaikan alasan dan kesimpulan secara matematis. Selain itu, sebagian peserta didik masih memerlukan penguatan dalam meyakini kemampuan dirinya ketika menyelesaikan permasalahan matematika. Berdasarkan kondisi tersebut penelitian ini bertujuan untuk: (1) Mendeskripsikan proses penerapan pembelajaran *Make a Match* Berbantuan Aplikasi *MathPapa*; (2) Mengetahui perbedaan peningkatan kemampuan penalaran matematis antara peserta didik yang memperoleh pembelajaran *Make a Match* berbantuan aplikasi *MathPapa* dengan peserta didik yang memperoleh pembelajaran konvensional; (3) Mengetahui perbedaan peningkatan *self-concept* peserta didik yang memperoleh pembelajaran *Make a Match* berbantuan aplikasi *MathPapa* dengan peserta didik yang memperoleh pembelajaran konvensional. Penelitian ini menggunakan pendekatan kuantitatif dengan metode *quasi experiment* dan desain *Non-equivalent Control Group Design* dilaksanakan di salah satu sekolah SMP di Jakarta pada Kelas VII tahun ajaran 2026/ 2027. Subjek penelitian terdiri atas kelas eksperimen yang menggunakan model *Make a Match* berbantuan aplikasi *MathPapa* dan kelas kontrol yang menggunakan pembelajaran konvensional. Data penelitian diperoleh melalui tes kemampuan penalaran matematis, angket *self-concept*, dan lembar observasi. Berdasarkan uji hipotesis, terdapat perbedaan peningkatan kemampuan penalaran matematis dan *self-concept* peserta didik yang memperoleh pembelajaran *Make a Match* berbantuan aplikasi *MathPapa* dengan peserta didik yang memperoleh pembelajaran konvensional.

Kata Kunci: Pembelajaran *Make a Match*, Penalaran Matematis, *Self-concept*

ABSTRACT

Syakirah Nimatullah. (2026). “Penerapan Model Pembelajaran *Make a Match* Berbantuan Aplikasi *MathPapa* untuk Meningkatkan Kemampuan Penalaran Matematis dan *Self-concept* Peserta Didik”

This research was motivated by the mathematical reasoning ability and self-concept of students, which still need to be developed in mathematics learning. Students still experience difficulties in understanding problems, connecting concepts, and presenting mathematical reasoning and conclusions. In addition, some students still need to strengthen their confidence in their abilities when solving mathematical problems. Based on these conditions, this study aimed to: (1) describe the implementation process of Make a Match learning assisted by the MathPapa application; (2) determine the difference in the improvement of students' mathematical reasoning ability between those who received Make a Match learning assisted by the MathPapa application and those who received conventional learning; and (3) determine the difference in the improvement of students' self-concept between those who received Make a Match learning assisted by the MathPapa application and those who received conventional learning. This research employed a quantitative approach using a quasi-experimental method with a Non-equivalent Control Group Design. The research was conducted at a junior high school in Jakarta with seventh-grade students in the 2026/2027 academic year. The research subjects consisted of an experimental class that received Make a Match learning assisted by the MathPapa application and a control class that received conventional learning. The data were collected through mathematical reasoning ability tests, self-concept questionnaires, and observation sheets. Based on the hypothesis testing, there was a difference in the improvement of students' mathematical reasoning ability and self-concept between those who received Make a Match learning assisted by the MathPapa application and those who received conventional learning.

Kata Kunci: *Make a Match Learning Model, Mathematical Reasoning , Self-concept*