

ABSTRAK

Safitri Puteri Setiawan, 1212050153, 2026, “Model Pembelajaran *Think Aloud Pair Problem Solving* Berbantuan *Educandy* Untuk Meningkatkan Kemampuan Komunikasi Matematis dan *Self-Awareness* Peserta Didik”

Kemampuan komunikasi matematis dan *self-awareness* peserta didik masih perlu ditingkatkan. Kondisi tersebut menunjukkan perlunya model pembelajaran yang dapat mendorong peserta didik untuk proses berpikir secara mendalam. Penelitian ini bertujuan untuk mengetahui proses pembelajaran menggunakan model pembelajaran *Think Aloud Pair Problem Solving* dengan berbantuan *Educandy*, serta peningkatan kemampuan komunikasi matematis dan *self-awareness* peserta didik. Metode penelitian ini menggunakan kuasi eksperimen dengan desain *nonequivalent control group*. Populasi penelitian meliputi seluruh peserta didik salah satu SMPN di Kota Bandung tahun ajaran 2025/2026 yang terdiri dari lima kelas, dengan dua kelas sebagai sampel yang dipilih melalui teknik *cluster random sampling*. Instrumen penelitian berupa lembar observasi keterlaksanaan pembelajaran, tes kemampuan komunikasi matematis (*pretest* dan *posttest*), serta *pre*-angket dan *post*-angket *self-awareness*. Analisis kedua data dilakukan menggunakan uji *Mann-Whitney* karena data tidak berdistribusi normal, serta analisis deskriptif terhadap keterlaksanaan pembelajaran. Hasil penelitian menunjukkan bahwa pembelajaran *Think Aloud Pair Problem Solving* berbantuan *Educandy* terlaksana dengan kategori sangat baik. Selain itu, peningkatan kemampuan komunikasi matematis peserta didik yang memperoleh pembelajaran *Think Aloud Pair Problem Solving* berbantuan *Educandy* tidak lebih baik dibandingkan dengan peserta didik yang memperoleh pembelajaran konvensional. Sedangkan, peningkatan *self-awareness* peserta didik yang memperoleh pembelajaran *Think Aloud Pair Problem Solving* berbantuan *Educandy* lebih baik dibandingkan dengan peserta didik yang memperoleh pembelajaran konvensional.

Kata Kunci: *Educandy*, Kemampuan Komunikasi Matematis, *Self-Awareness*, *Think Aloud Pair Problem Solving*

ABSTRACT

Safitri Puteri Setiawan, 1212050153, 2026, “Think Aloud Pair Problem Solving Learning Model Assisted by Educandy to Improve Students' Mathematical Communication Skills and Self-Awareness”

The mathematical communication skills and self-awareness of students still need to be improved. This condition indicates the need for a learning model that can encourage students to engage in deep thinking processes. This study aims to examine the learning process using the Think Aloud Pair Problem Solving learning model with the assistance of Educandy, as well as the improvement of students' mathematical communication skills and self-awareness. The research method used a quasi-experimental design with a nonequivalent control group. The study population included all students of a public junior high school (SMPN) in Bandung City for the 2025/2026 academic year, consisting of five classes, with two classes selected as samples using cluster random sampling. The research instruments included an observation sheet for learning implementation, pretest and posttest on mathematical communication skills, as well as pre- and post-questionnaires on self-awareness. The analysis of the two data sets was carried out using the Mann-Whitney test because the data are not normally distributed, as well as descriptive analysis on the implementation of learning. The results of the study showed that Think Aloud Pair Problem Solving learning assisted by Educandy was implemented with a very good category. In addition, the improvement in mathematical communication skills of students who received Think Aloud Pair Problem Solving learning assisted by Educandy was not better compared to students who received conventional learning. Meanwhile, the improvement in self-awareness of students who received Think Aloud Pair Problem Solving learning assisted by Educandy was better compared to students who received conventional learning.

Keywords: Educandy, Mathematical Communication Ability, Self-Awareness, Think Aloud Pair Problem Solving