

ABSTRAK

Iis Robiatul Adawiyah, 1192050049, 2025. “Pembelajaran Model *Interactive Conceptual Intruction* (ICI) Berbantuan Aplikasi *Photomath* untuk Meningkatkan Kemampuan Berpikir Reflektif dan Disposisi Matematis Siswa”.

Kemampuan berpikir reflektif dibutuhkan bagi siswa karena dapat membantu siswa untuk mendapatkan hasil pembelajaran yang lebih optimal, selain itu dibutuhkan disposisi matematis yang baik untuk menunjang keberhasilan pembelajaran matematika. Tujuan penelitian ini untuk mengetahui peningkatan kemampuan berpikir reflektif dan disposisi matematis melalui model pembelajaran *Interactive Conceptual Intruction* (ICI) berbantuan aplikasi *Photomath*. Penelitian melibatkan dua kelas yaitu kelas IX C dan IX D tahun ajaran 2024/2025 pada salah satu sekolah di Kota Cimahi. Penelitian ini menggunakan metode kuasi eksperimen dengan desain *Nonequivalent Control Group*. Hasil penelitian diperoleh bahwa: (a) secara keseluruhan keterlaksanaan model ICI termasuk kedalam kategori sangat baik; (b) Peningkatan kemampuan berpikir reflektif siswa yang menggunakan model pembelajaran *Interactive Conceptual Instruction* (ICI) berbantuan aplikasi *photomath* lebih baik dibandingkan dengan siswa yang menggunakan pembelajaran konvensional; (c) Terdapat perbedaan pencapaian kemampuan berpikir reflektif antara siswa yang melaksanakan pembelajaran *Interactive Conceptual Instruction* (ICI) berbantuan aplikasi *photomath* dengan siswa yang melaksanakan pembelajaran konvensional berdasarkan tingkat Pengetahuan Awal Matematik (PAM); (d) Terdapat peningkatan kemampuan disposisi matematis siswa yang memperoleh pembelajaran *Interactive Conceptual Instruction* (ICI) berbantuan aplikasi *photomath*; (e) Kesulitan siswa dalam menyelesaikan soal kemampuan berpikir reflektif adalah kesulitan mengaplikasikan konsep-konsep matematika dengan benar sehingga siswa tidak dapat menentukan metode yang tepat dalam menyelesaikan permasalahan.

Kata Kunci: Kemampuan Berpikir Reflektif, Disposisi Matematis, *Interactive Conceptual Instruction* (ICI), *photomath*

ABSTRACT

Iis Robiatul Adawiyah, 1192050049, 2025. “Learning Interactive Conceptual Instruction (ICI) Model Assisted by Photomath Application to Improve Students' Reflective Thinking Skills and Mathematical Disposition”.

Reflective thinking skills are needed for students because they can help students to get more optimal learning outcomes, in addition, good mathematical dispositions are needed to support the success of mathematics learning. The purpose of this study was to determine the improvement of reflective thinking skills and mathematical dispositions through the Interactive Conceptual Instruction (ICI) learning model assisted by the Photomath application. The study involved two classes, namely class IX C and IX D in the 2024/2025 academic year at a school in Cimahi City. This study used a quasi-experimental method with a Nonequivalent Control Group design. The results of the study showed that: (a) overall the implementation of the ICI model was included in the very good category; (b) The improvement of reflective thinking skills of students who used the Interactive Conceptual Instruction (ICI) learning model assisted by the photomath application was better than students who used conventional learning; (c) There is a difference in the achievement of reflective thinking skills between students who carried out Interactive Conceptual Instruction (ICI) learning assisted by the photomath application and students who carried out conventional learning based on the level of Initial Mathematical Knowledge (PAM); (d) There is an increase in the mathematical disposition abilities of students who receive Interactive Conceptual Instruction (ICI) learning assisted by the photomath application; (e) Students' difficulties in solving reflective thinking ability questions are the difficulty of applying mathematical concepts correctly so that students cannot determine the right method in solving problems.

Keywords: *Reflective Thinking Ability, Mathematical Disposition, Interactive Conceptual Instruction (ICI), photomath*