

ABSTRAK

Lindiani Fazri. 2025. **PENGARUH MODEL *INTERACTIVE CONCEPTUAL INSTRUCTION* (ICI) BERBANTUAN *GOOGLE SITES* TERHADAP KEMAMPUAN KOMUNIKASI MATEMATIS PADA MATERI KINEMATIKA**

Penelitian ini dilatarbelakangi rendahnya kemampuan komunikasi matematis peserta didik karena kurangnya variasi model interaktif dalam pembelajaran yang dibuktikan dengan hasil tes studi pendahuluan di mana persentase rata-rata skor kemampuan komunikasi matematis peserta didik 30,64 dan berada pada kategori sangat rendah. Berdasarkan kajian literatur, menerapkan model ICI dan media interaktif *Google Sites* memberikan pengaruh positif dan signifikan terhadap kemampuan komunikasi matematis peserta didik. Penelitian ini bertujuan untuk mengetahui pengaruh model ICI berbantuan *Google Sites* terhadap kemampuan komunikasi matematis pada materi kinematika di kelas XI SMA Negeri 6 Tasikmalaya tahun ajaran 2025/2026. Metode yang digunakan adalah kuasi eksperimen dengan *the matching-only posttest-only control group design*. Populasi penelitian adalah kelas XI fisika SMA Negeri 6 Tasikmalaya yang terdiri dari 3 kelas dengan total 95 peserta didik. Sampel penelitian dipilih menggunakan teknik *purposive sampling*, ditetapkan kelas XI-2 sebagai kelas eksperimen dan kelas XI-3 sebagai kelas kontrol dengan masing-masing kelas berjumlah 31 peserta didik. Teknik pengumpulan data meliputi tes kemampuan komunikasi matematis berbentuk soal uraian yang diberikan setelah perlakuan (*posttest*) dan lembar observasi keterlaksanaan model ICI berbantuan *Google Sites*. Analisis data yang digunakan meliputi uji-t pada taraf signifikansi ($\alpha = 0,05$). Hasil uji hipotesis menunjukkan model *Interactive Conceptual Instruction* (ICI) berbantuan *Google Sites* berpengaruh terhadap kemampuan komunikasi matematis pada materi kinematika di kelas XI SMA Negeri 6 Tasikmalaya tahun ajaran 2025/2026.

Kata kunci: google sites, kemampuan komunikasi matematis, kinematika, model ICI.

ABSTRACT

Lindiani Fazri, 2025. ***THE EFFECT OF THE INTERACTIVE CONCEPTUAL INSTRUCTION (ICI) MODEL ASSISTED BY GOOGLE SITES ON MATHEMATICAL COMMUNICATION SKILLS IN KINEMATIC***

This research was motivated by the low level of mathematical communication skills among students due to a lack of variety in interactive models in learning, as evidenced by the results of a preliminary study test in which the average percentage score for students' mathematical communication skills was 30.64, which is in the very low category. Based on a literature review, applying the ICI model and Google Sites interactive media has a positive and significant effect on students' mathematical communication skills. This study aims to determine the effect of the ICI model assisted by Google Sites on mathematical communication skills in kinematics material in class XI of SMA Negeri 6 Tasikmalaya in the 2025/2026 academic year. The method used is a quasi-experiment with a matching-only posttest-only control group design. The research population was the 11th grade physics class at Tasikmalaya State Senior High School 6, consisting of 3 classes with a total of 95 students. The research sample was selected using purposive sampling, with class XI-2 designated as the experimental class and class XI-3 as the control class, each with 31 students. Data collection techniques included a mathematical communication ability test in the form of essay questions administered after the treatment (posttest) and an observation sheet on the implementation of the Google Sites-assisted ICI model. Data analysis included a t-test at a significance level ($\alpha=0.05$). The results of the hypothesis test showed that the Interactive Conceptual Instruction (ICI) model assisted by Google Sites had an effect on mathematical communication skills in kinematics material in class XI of SMA Negeri 6 Tasikmalaya in the 2025/2026 academic year.

Keywords: ICI model, google sites, kinematics, mathematical communication skills.