

**PENGARUH MODEL *DISCOVERY LEARNING* BERBANTUAN MEDIA
SCRAPBOOK DIGITAL TERHADAP PENINGKATAN KEMAMPUAN
BERPIKIR KRITIS MATEMATIS MURID SEKOLAH DASAR
(Penelitian Kuasi Eksperimen Murid Kelas IV SDN Rancamanyar 02)**

oleh

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ABSTRAK

Penelitian ini dilatarbelakangi oleh rendahnya kemampuan berpikir kritis matematis murid sekolah dasar, yang ditunjukkan oleh kesulitan murid dalam menganalisis permasalahan, menghubungkan konsep matematika, serta memberikan alasan logis dalam menyelesaikan soal. Oleh karena itu, diperlukan model dan media pembelajaran yang dapat meningkatkan kemampuan berpikir kritis matematis murid. Penelitian ini bertujuan untuk mengetahui pengaruh model *Discovery Learning* berbantuan media *scrapbook digital* terhadap peningkatan kemampuan berpikir kritis matematis murid sekolah dasar. Penelitian ini menggunakan pendekatan kuantitatif dengan metode *quasi experiment* dan desain *nonequivalent control group design*. Populasi penelitian adalah murid kelas IV SDN Rancamanyar 02 Tahun Ajaran 2025/2026. Sampel penelitian terdiri atas kelas IV B sebagai kelas eksperimen dan kelas IV C sebagai kelas kontrol dengan teknik *purposive sampling*. Pengumpulan data dilakukan melalui tes, observasi, dan dokumentasi. Analisis data menggunakan bantuan *IBM SPSS Statistic* melalui uji normalitas, uji homogenitas, uji hipotesis *Independent Sample t-test*, uji *N-Gain*, dan uji *Effect Size*. Hasil penelitian menunjukkan bahwa proses pembelajaran menggunakan model *Discovery Learning* berbantuan media *scrapbook digital* terlaksana dengan baik dan mampu meningkatkan keaktifan murid, dengan rata-rata nilai hasil observasi mencapai 86%. Hasil uji *Independent Sample t-test* menunjukkan nilai signifikansi sebesar $0,000 < 0,05$ dengan rata-rata *Posttest* kelas eksperimen sebesar 84,50. Hasil uji *N-Gain* menunjukkan kelas eksperimen memperoleh nilai sebesar 70,40% dengan kategori tinggi. Hasil perhitungan *Effect Size (Cohen's d)* sebesar 1,0945 termasuk kategori efek besar. Berdasarkan hasil penelitian dapat disimpulkan bahwa model *Discovery Learning* berbantuan media *scrapbook digital* berpengaruh signifikan dan memberikan dampak yang besar terhadap peningkatan kemampuan berpikir kritis matematis murid sekolah dasar.

Kata Kunci: *Discovery Learning*, *Scrapbook Digital*, Kemampuan Berpikir Kritis Matematis Murid Sekolah Dasar

The Effect of the Discovery Learning Model Assisted by Digital Scrapbook Media on Improving Elementary School Students' Mathematical Critical Thinking Skills
(A Quasi-Experimental Study of Fourth-Grade Students at SDN Rancamanyar 02)

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ABSTRACT

This research was motivated by the low mathematical critical thinking skills of elementary school students, evidenced by their difficulties in analyzing problems, connecting mathematical concepts, and providing logical reasoning when solving questions. Therefore, there is a need for learning models and media capable of enhancing students' mathematical critical thinking skills. This study aims to determine the effect of the Discovery Learning model, supported by digital scrapbook media, on improving the mathematical critical thinking skills of elementary school students. A quantitative approach was employed using a quasi-experimental method and a non-equivalent control group design. The study population consisted of fourth-grade students at SDN Rancamanyar 02 during the 2025/2026 academic year. The sample comprised Class IV-B (experimental group) and Class IV-C (control group), selected using a purposive sampling technique. Data collection involved tests, observation, and documentation. Data analysis was conducted using IBM SPSS Statistics, encompassing normality tests, homogeneity tests, Independent Sample t-tests for hypothesis testing, N-Gain tests, and Effect Size tests. The results indicate that the learning process utilizing the Discovery Learning model with digital scrapbook media was implemented successfully and effectively boosted student engagement, with an average observation score of 86%. The Independent Sample t-test yielded a significance value of 0.000 ($p < 0.05$), with the experimental class achieving a mean post-test score of 84.50. The N-Gain test showed that the experimental class attained a score of 70.40%, falling into the "high" category. The calculated Effect Size (Cohen's d) was 1.0945, indicating a "large effect." In conclusion, the Discovery Learning model supported by digital scrapbook media has a significant influence and a substantial impact on improving the mathematical critical thinking skills of elementary school students.

Keywords: *Discovery Learning, Digital Scrapbook, Mathematical Critical Thinking Skills Elementary School Students*