

**PENGARUH MODEL *PROBLEM BASED LEARNING* BERBANTUAN  
MULTIMEDIA INTERAKTIF BERBASIS PENDEKATAN  
KONTEKSTUAL TERHADAP KOMPETENSI PENGETAHUAN MUATAN  
MATEMATIKA SISWA KELAS IV SD GUGUS I  
KECAMATAN TAMPAKSIRING**

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**ABSTRAK**

Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran *Problem Based Learning* berbantuan multimedia interaktif berbasis pendekatan kontekstual terhadap kompetensi pengetahuan muatan Matematika siswa kelas IV SD Gugus I Kecamatan Tampaksiring tahun ajaran 2025/2026. Penelitian ini menggunakan desain eksperimen semu *quasi experimental design* dengan rancangan *nonequivalent pretest-posttest control group design*. Populasi penelitian ini yakni 180 orang siswa kelas IV yang tersebar di tujuh sekolah SD Gugus I Kecamatan Tampaksiring. Sampel penelitian ini ditentukan dengan teknik *cluster random sampling*, dan diperoleh kelas IV SD Negeri 1 Manukaya sebanyak 33 siswa sebagai kelompok eksperimen dan kelas IV SD Negeri 4 Manukaya sebanyak 31 siswa sebagai kelompok kontrol. Pengumpulan data penelitian ini menggunakan metode tes objektif pilihan ganda. Data penelitian yang terkumpul dianalisis menggunakan metode statistik deskriptif dan statistik inferensial. Hasil analisis deskriptif kuantitatif menunjukkan bahwa persentase nilai rata-rata skor *post-test* kelompok eksperimen sebesar 87,50% yang berada pada kategori baik sedangkan persentase nilai rata-rata skor *post-test* kelompok kontrol sebesar 67,30% yang berada pada kategori cukup. Hasil analisis statistik inferensial menggunakan uji-t menunjukkan bahwa nilai  $t_{hitung} = 11,81 > t_{tabel} 2,00$  pada taraf signifikansi 5% dengan  $dk = 62$ , maka  $H_0$  ditolak dan  $H_1$  diterima. Dengan demikian dapat disimpulkan bahwa terdapat pengaruh yang signifikan Model *Problem Based Learning* berbantuan Multimedia Interaktif Berbasis Pendekatan Kontekstual Terhadap Kompetensi Pengetahuan Muatan Matematika Siswa Kelas IV SD Gugus I Kecamatan Tampaksiring tahun ajaran 2025/2026.

Kata kunci: *Problem Based Learning*, Multimedia Interaktif, Pendekatan Kontekstual, Kompetensi Pengetahuan, Muatan Matematika.

**THE EFFECT OF MULTIMEDIA-ASSISTED PROBLEM BASED  
LEARNING MODEL BASED ON CONTEXTUAL APPROACH ON THE  
MATHEMATICS CONTENT KNOWLEDGE COMPETENCE OF  
FOURTH GRADE STUDENTS OF ELEMENTARY SCHOOL CLUSTER I  
TAMPAKSIRING DISTRICT**

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**ABSTRACT**

*This study aims to determine the effect of the Problem Based Learning learning model assisted by interactive multimedia based on a contextual approach on the knowledge competency of Mathematics content of fourth-grade students of Elementary School Cluster I, Tampaksiring District, in the 2025/2026 academic year. This study used a quasi-experimental design with a nonequivalent pretest-posttest control group design. The population of this study was 180 fourth-grade students spread across seven elementary schools in Cluster I, Tampaksiring District. The sample of this study was determined by cluster random sampling technique, and obtained 33 fourth-grade students of Elementary School 1 Manukaya as the experimental group and 31 fourth-grade students of Elementary School 4 Manukaya as the control group. The data collection of this study used a multiple-choice objective test method. The collected research data were analyzed using descriptive statistical and inferential statistical methods. The results of the quantitative descriptive analysis showed that the percentage of the average post-test score of the experimental group was 87.50% which was in the good category while the percentage of the average post-test score of the control group was 67.30% which was in the sufficient category. The results of inferential statistical analysis using the t-test show that the  $t\text{-value} = 11.81 > t\text{-table } 2.00$  at a significance level of 5% with  $dk = 62$ , then  $H_0$  is rejected and  $H_1$  is accepted. Thus, it can be concluded that there is a significant influence of the Problem Based Learning Model assisted by Interactive Multimedia Based on a Contextual Approach on the Mathematics Content Knowledge Competence of Grade IV Students of Elementary School Cluster I, Tampaksiring District, in the 2025/2026 academic year.*

*Keyword: Problem Based Learning, Interactive Multimedia, Contextual Approach, Knowledge Competence, Mathematical Content.*