

**PENGEMBANGAN MULTIMEDIA INTERAKTIF MATA PELAJARAN
IPA MATERI PERUBAHAN WUJUD ZAT SISWA KELAS IV SD
SARASWATI 1 DENPASAR TAHUN PELAJARAN 2025/2026**

Oleh

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ABSTRAK

Penelitian ini bertujuan (1) untuk mengetahui rancang bangun multimedia interaktif pada materi perubahan wujud benda di kelas IV SD Saraswati 1 Denpasar, (2) mengetahui kelayakan multimedia interaktif berdasarkan uji ahli rancang bangun, uji ahli isi materi pelajaran, uji ahli desain instruksional, uji ahli media pembelajaran, uji perorangan, dan uji kelompok kecil siswa kelas IV SD Saraswati 1 Denpasar, serta (3) mengetahui efektivitas penggunaan multimedia interaktif pada materi perubahan wujud benda terhadap hasil belajar siswa kelas IV SD Saraswati 1 Denpasar. Pengumpulan data menggunakan metode kuesioner dan tes. Teknik analisis data yang digunakan meliputi analisis deskriptif kuantitatif, deskriptif kualitatif, dan analisis statistik inferensial. Hasil uji judges menunjukkan bahwa semua angket dinyatakan relevan dan siap digunakan. Hasil penelitian menunjukkan bahwa: (1) rancang bangun multimedia interaktif memperoleh persentase penilaian dari ahli rancang bangun sebesar 95% dengan kualifikasi sangat baik; (2) multimedia interaktif dinyatakan layak berdasarkan hasil penilaian dari ahli isi materi pelajaran sebesar 90% (sangat baik), ahli desain instruksional sebesar 93,7% (sangat baik), ahli media pembelajaran sebesar 92,3% (sangat baik), uji coba perorangan sebesar 96,52% (sangat baik), dan uji coba kelompok kecil sebesar 95,8% (sangat baik); (3) hasil uji efektivitas menggunakan uji-t dependent menunjukkan bahwa $t\text{-hitung} = 15,47 > t\text{-tabel} (\approx 2,04)$ sehingga hasilnya signifikan, yang berarti terdapat perbedaan hasil belajar siswa sebelum dan sesudah menggunakan multimedia interaktif. Berdasarkan hasil penelitian tersebut, dapat disimpulkan bahwa multimedia interaktif pada materi perubahan wujud benda efektif digunakan untuk meningkatkan hasil belajar IPA siswa kelas IV SD Saraswati 1 Denpasar.

Kata Kunci: Multimedia Interaktif, Perubahan Wujud Benda, IPA

**DEVELOPMENT OF INTERACTIVE MULTIMEDIA FOR THE SCIENCE
CURRICULUM ON THE TOPIC OF CHANGES IN THE STATE OF
MATTER FOR FOURTH-GRADE STUDENTS OF SARASWATI 1
ELEMENTARY SCHOOL IN DENPASAR FOR THE 2025/2026
SCHOOL YEAR**

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ABSTRACT

This study aimed (1) to determine the design and development of interactive multimedia on the topic of changes in the states of matter for fourth-grade students at SD Saraswati 1 Denpasar; (2) to determine the feasibility of the interactive multimedia based on expert review including instructional design experts, subject matter experts, media experts, individual trials, and small group trials involving fourth-grade students at SD Saraswati 1 Denpasar; and (3) to determine the effectiveness of using interactive multimedia on the topic of changes in the states of matter on the learning outcomes of fourth-grade students at SD Saraswati 1 Denpasar. Data were collected using questionnaires and tests. The data analysis techniques included quantitative descriptive analysis, qualitative descriptive analysis, and inferential statistical analysis. The results of the judges' test indicated that all instruments were relevant and ready to be used. The results of the study showed that: (1) the design and development of the interactive multimedia obtained a score of 95% from the design expert with a very good qualification; (2) the interactive multimedia was declared feasible based on the assessment results from subject matter experts at 90% (very good), instructional design experts at 93.7% (very good), media experts at 92.3% (very good), individual trials at 96.52% (very good), and small group trials at 95.8% (very good); (3) the effectiveness test using the dependent t-test showed that $t\text{-count} = 15.47 > t\text{-table} (\approx 2.04)$, indicating a significant result, which means that there was a difference in students' learning outcomes before and after using the interactive multimedia. Based on these results, it can be concluded that the interactive multimedia on the topic of changes in the states of matter is effective in improving the science learning outcomes of fourth-grade students at SD Saraswati 1 Denpasar.

Keywords: *Interactive Multimedia, Changes in the States of Matter, Science.*