

PENGEMBANGAN MULTIMEDIA INTERAKTIF BERBASIS *GOOGLE SITES* UNTUK MENINGKATKAN LITERASI SAINS SISWA KELAS V SD NEGERI 4 PANJI

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ABSTRAK

Penelitian ini bertujuan untuk mengembangkan multimedia interaktif berbasis *Google Sites* pada topik siklus air serta mengetahui tingkat validitas, kepraktisan, dan efektivitasnya dalam meningkatkan literasi sains siswa kelas V SD Negeri 4 Panji. Penelitian ini merupakan penelitian pengembangan yang menggunakan model ADDIE yang meliputi tahap analisis, desain, pengembangan, implementasi, dan evaluasi. Subjek penelitian adalah 28 siswa kelas V SD Negeri 4 Panji. Metode pengumpulan data meliputi observasi, wawancara, angket, dan tes literasi sains berupa *pretest* dan *posttest*. Instrumen penelitian terdiri atas lembar validasi ahli materi dan ahli media, angket kepraktisan guru dan siswa, serta tes literasi sains berbentuk pilihan ganda. Data dianalisis menggunakan teknik analisis deskriptif kualitatif dan kuantitatif. Hasil penelitian menunjukkan bahwa multimedia interaktif berbasis *Google Sites* memperoleh persentase validitas ahli materi sebesar 96,42% dan validitas ahli media berada pada kategori sangat baik. Kepraktisan media menunjukkan hasil sangat baik melalui uji perorangan sebesar 97%, uji kelompok kecil sebesar 95%, respon guru sebesar 98%, dan respon siswa sebesar 83%. Hasil uji efektivitas menunjukkan adanya peningkatan literasi sains siswa setelah menggunakan media, ditunjukkan melalui hasil uji t dengan nilai signifikansi $<0,001$ serta nilai rata-rata *N-Gain* sebesar 0,61 dengan kategori sedang atau cukup efektif. Implikasi penelitian ini menunjukkan bahwa multimedia interaktif berbasis *Google Sites* dapat menjadi alternatif media pembelajaran digital yang menarik, interaktif, kontekstual, dan fleksibel diakses melalui *handphone* maupun laptop sehingga mendukung pembelajaran IPAS di era digital. Dengan demikian, multimedia interaktif berbasis *Google Sites* layak dan efektif digunakan untuk meningkatkan literasi sains siswa kelas V sekolah dasar.

Kata Kunci: Multimedia Interaktif, *Google Sites*, Literasi Sains, Siklus Air, Sekolah Dasar

**DEVELOPMENT OF INTERACTIVE MULTIMEDIA BASED ON
GOOGLE SITES TO IMPROVE SCIENCE LITERACY OF GRADE V
STUDENTS OF STATE ELEMENTARY SCHOOL 4 PANJI**

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ABSTRACT

This study aims to develop interactive multimedia based on Google Sites on the topic of the water cycle and to determine its validity, practicality, and effectiveness in improving the scientific literacy of fifth-grade students at SD Negeri 4 Panji. This research is a development study using the ADDIE model, which consists of the stages of Analysis, Design, Development, Implementation, and Evaluation. The research subjects were 28 fifth-grade students of SD Negeri 4 Panji. Data collection methods included observation, interviews, questionnaires, and scientific literacy tests in the form of pretest and posttest. The research instruments consisted of validation sheets from material experts and media experts, practicality questionnaires from teachers and students, and multiple-choice scientific literacy tests. The data were analyzed using qualitative and quantitative descriptive analysis techniques. The results of the study show that the interactive multimedia based on Google Sites obtained a validity percentage of 96.42% from material experts and was categorized as very good by media experts. The practicality of the media was also rated very high, with individual testing reaching 97%, small group testing 95%, teacher responses 98%, and student responses 83%. The effectiveness test results indicate an improvement in students' scientific literacy after using the media, as shown by a t-test result with a significance value of <0.001 and an average N-Gain score of 0.61, which is categorized as moderate or sufficiently effective. The implication of this study is that interactive multimedia based on Google Sites can serve as an alternative digital learning medium that is attractive, interactive, contextual, and flexible, accessible via smartphones and laptops, thus supporting science learning in the digital era. Therefore, interactive multimedia based on Google Sites is considered feasible and effective for improving the scientific literacy of fifth-grade elementary school students.

Keywords: *Interactive Multimedia, Google Sites, Scientific Literacy, Water Cycle, Elementary School*