

ABSTRAK

PENGEMBANGAN BUKU TEKS PERADABAN AIR BERBASIS PROJECT BASED LEARNING UNTUK MENUMBUHKAN KARAKTER BERWAWASAN LUAS

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2026

Karakter berwawasan luas merupakan kompetensi penting abad ke-21 untuk menumbuhkan kemampuan berpikir kritis dan memahami keberagaman. Namun, pesatnya perkembangan media digital yang tidak diimbangi literasi digital memadai menyebabkan anak sekolah dasar belum mampu menyikapi informasi secara kritis, sehingga menghambat perkembangan karakter berwawasan luas sejak dini. Penelitian ini bertujuan mengembangkan dan menguji keefektifan buku teks peradaban air berbasis *Project-Based Learning* (PjBL) untuk menumbuhkan karakter berwawasan luas pada anak sekolah dasar. Penelitian menggunakan metode *Research and Development* (R&D) dengan model ADDIE dan desain *quasi-experimental*. Subjek penelitian melibatkan sepuluh guru bersertifikasi sebagai responden analisis kebutuhan, sepuluh ahli pada tahap *expert judgement*, anak kelas IV salah satu SD Negeri di Yogyakarta (kelas IV A sebagai kelompok eksperimen dan IV B sebagai kelompok kontrol), serta orang tua anak sebagai responden pengisian kuesioner karakter berwawasan luas.

Hasil penelitian menunjukkan, 1) pengembangan buku teks peradaban air berbasis PjBL mengikuti tahapan ADDIE. 2) Kualitas buku berada pada kategori “sangat baik” dengan skor 3,94 (skala 1-4) dan direkomendasikan tanpa revisi. 3) Penerapan buku teks berpengaruh positif dan signifikan terhadap karakter berwawasan luas ($p < 0,05$) dengan efek besar ($r = 0,873$), n -gain kelompok kontrol kategori sedang (39,46%) dan kelompok eksperimen tinggi (84,63%), konsistensi penilaian *interrater reliability* berada pada kategori 8 *substantial* dan 3 *almost perfect* (0,63–0,89), serta z -score kelompok kontrol seluruhnya negatif (–1,68 hingga –0,31) dan kelompok eksperimen dominan positif (tertinggi 1,30). Temuan ini menegaskan buku teks berbasis PjBL efektif mendukung pendidikan karakter dan layak digunakan untuk pembelajaran berkelanjutan.

Kata kunci: Karakter Berwawasan Luas; *Project-Based Learning*; Peradaban Air; Pendidikan Karakter; Sekolah Dasar

ABSTRACT

**DEVELOPMENT OF A WATER CIVILIZATION TEXTBOOK BASED ON
PROJECT-BASED LEARNING TO FOSTER BROAD-MINDED
CHARACTER**

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Broad-mindedness is an important 21st-century competency for fostering critical thinking and understanding diversity. However, the rapid development of digital media, which is not balanced by adequate digital literacy, has resulted in elementary school students being unable to respond to information critically, thereby hindering the development of broad-mindedness from an early age. This study aims to develop and test the effectiveness of a water civilization textbook based on Project-Based Learning (PjBL) to foster broad-mindedness in elementary school students. The study uses the Research and Development (R&D) method with the ADDIE model and a quasi-experimental design. The research subjects involved ten certified teachers as respondents for needs analysis, ten experts at the expert judgment stage, fourth-grade students from a public elementary school in Yogyakarta (class IV A as the experimental group and IV B as the control group), and students' parents as respondents for filling out the broad-minded character questionnaire.

The results showed that 1) the development of the water civilization textbook based on PjBL followed the ADDIE stages. 2) The quality of the book was in the "very good" category with a score of 3.94 (scale of 1-4) and was recommended without revision. 3) The application of the textbook had a positive and significant effect on broad-minded character ($p < 0.05$) with a large effect ($r = 0.873$), with the control group's n -gain in the moderate category (39.46%) and the experimental group in the high category (84.63%). The consistency of interrater reliability was in the substantial category (8) and almost perfect category (3) (0,63–0,89), and the z -scores of the control group were all negative (–1.68 to –0.31) and those of the experimental group were predominantly positive (highest 1.30). These findings confirm that PjBL-based textbooks are effective in supporting character education and are suitable for use in continuous learning.

Keywords: Broad-minded character; Project-Based Learning; Water Civilization; Character Education; Elementary School