

PENGEMBANGAN *E-BOOK* BERBASIS PPI UNTUK MENINGKATKAN KARAKTER PEDULI LINGKUNGAN SISWA PADA MATA PELAJARAN IPAS KELAS V

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ABSTRAK

Penelitian ini bertujuan menghasilkan media pembelajaran berupa e-book berbasis Pendidikan Perubahan Iklim (PPI) pada materi keanekaragaman hayati untuk siswa kelas V SD yang memenuhi kriteria valid, praktis, dan efektif dalam meningkatkan karakter peduli lingkungan. Penelitian ini merupakan penelitian dan pengembangan (Research and Development/R&D) yang menerapkan model ADDIE. Pengumpulan data dilakukan menggunakan instrumen angket dan tes objektif. Data validitas diperoleh melalui penilaian ahli media pembelajaran dan ahli materi IPA Sekolah Dasar, sedangkan data kepraktisan diperoleh dari siswa kelas V SD sebagai praktisi pengguna. Efektivitas produk diuji menggunakan desain one-group pretest-posttest dengan melibatkan 15 siswa kelas V SD sebagai sampel penelitian. Data yang terkumpul dianalisis menggunakan teknik analisis kualitatif dan kuantitatif. Hasil penelitian menunjukkan bahwa: (1) e-book berbasis PPI yang dikembangkan memenuhi kriteria valid berdasarkan aspek isi, desain, dan tampilan media; (2) media memperoleh kategori praktis berdasarkan hasil penilaian siswa sebagai pengguna; dan (3) media terbukti efektif dalam meningkatkan karakter peduli lingkungan serta pemahaman siswa terhadap materi keanekaragaman hayati. Dengan demikian, e-book berbasis Pendidikan Perubahan Iklim yang dikembangkan dinyatakan valid, praktis, dan efektif sehingga layak digunakan sebagai media pembelajaran untuk mendukung peningkatan karakter peduli lingkungan pada siswa sekolah dasar.

Kata kunci: Media Pembelajaran, *e-book* Berbasis PPI, Karakter Peduli Lingkungan, Keanekaragaman Hayati.

**DEVELOPMENT OF A CLIMATE CHANGE EDUCATION (CCE)-
BASED E-BOOK TO ENHANCE STUDENTS' ENVIRONMENTAL CARE
CHARACTER IN GRADE V SCIENCE (IPAS)**

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ABSTRACT

This study aims to develop a learning medium in the form of an e-book based on Climate Change Education (CCE) to enhance students' environmental care character and understanding of biodiversity material in fifth grade elementary school that is valid, practical, and effective. The research employed a Research and Development (R&D) approach using the ADDIE development model. Data collection methods included questionnaires and objective tests. Media validity data were obtained from learning media experts and elementary science subject matter experts. Practicality data were obtained from practitioners (fifth grade students). The effectiveness of the product was tested using a one-group pretest–posttest design with a sample of 15 fifth grade students. The research data were analyzed qualitatively and quantitatively. The results of the development of the e-book based on Climate Change Education to enhance students' environmental care character and understanding of biodiversity material in fifth grade elementary school indicate that: (1) the media is valid in terms of content, design, and display aspects; (2) the media is practical based on student practitioner assessments with a sample of 15 students; and (3) the media is effective in improving students' environmental care character and understanding of biodiversity material. Based on these results, it can be concluded that the developed CCE-based e-book learning media is valid, practical, and effective in enhancing students' environmental care character and understanding of biodiversity material, and is therefore suitable for sustainable use in learning activities.

Keywords: *Learning Media, CCE-Based E-book, Environmental Care Character, (Biodiversity).*