PENGEMBANGAN *E-BOOK STORY* KOKILO BERBASIS CTL PADA OPERASI HITUNG MUATAN MATEMATIKA SISWA KELAS III SD NO. 2 TIBUBENENG

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ABSTRAK

Penelitian pengembangan ini dilatarbelakangi oleh kurangnsya variasi media pembelajaran dalam pembelajaran matematika materi operasi hitung satuan berat. Kondisi tersebut berdampak pada hasil belajar yang belum optimal. Tujuan dari penelitian ini, untuk mengetahui (1) hasil rancang bangun media *e-book story* Kokilo berbasis CTL, (2) kelayakan media *e-book story* Kokilo berbasis CTL, (3) efektivitas penggunaan media *e-book story* Kokilo berbasis CTL. Penelitian pengembangan ini mengacu pada model pengembangan ADDIE. Subjek penelitian ini adalah 28 siswa kelas III A SD No. 2 Tibubeneng. Metode pengumpulan data pada penelitian ini yaitu metode non-tes berupa angket dan metode tes. Penelitian ini menggunakan teknik analisis data deskriptif kualitatif, deskriptif kuantitatif, dan statistik inferensial. Hasil Penelitian ini menunjukan bahwa (1) rancang bangun media *E-book story* Kokilo memuat halaman cover, petunjuk penggunaan, cerita kontekstual, ilustrasi tokoh dan latar yang mendukung, kompetensi, kuis, dan profil pengembang. Pengembangan media ini didsarkan pada *flowchart*, *storyboard*, dan diagram alir yang telah sesuai dengan model ADDIE. Adapun hasil penilaian dari ahli rancang bangun memperoleh skor 92,50% (sangat baik). (2) Hasil uji kelayakan menunjukan bahwa media *e-book story* Kokilo berbasis CTL layak digunakan dalam proses pembelajaran berdasarkan hasil penilaian ahli isi/materi pembelajaran memperoleh 96,67% (sangat baik), hasil penilaian ahli desain pembelajaran memperoleh 96,67% (sangat baik), hasil penilaian ahli media pembelajaran memperoleh 96,67% (sangat baik), hasil uji coba perorangan memperoleh 95,56% (sangat baik), dan hasil uji coba kelompok kecil memperoleh 95,37% (sangat baik), serta (3) Berdasarkan hasil uji-t diperoleh t_{hitung} 2,1772 dan t_{tabel} 1,7033, sehingga $t_{hitung} > t_{tabel}$ (2,1772>1,7033), yang berarti H0 ditolak dan H1 diterima, yaitu rata-rata hasil *post-test* siswa menggunakan media *e-book story* Kokilo berbasis CTL lebih dari nilai BSKAP (88,93>86). Maka dapat disimpulkan bahwa produk *e-book story* Kokilo berbasis CTL efektif diterapkan pada materi operasi hitung satuan berat muatan matematika kelas III SD No. 2 Tibubeneng.

Kata Kunci: *E-book story,* Hasil Belajar, CTL, Satuan Berat

ABSTRACT

This development research was motivated by the limited variation of instructional media used in mathematics learning, particularly on the topic of operations with weight units. This condition has contributed to students' learning outcomes that have not yet reached an optimal level. The objectives of this study were to determine: (1) the design and development of the e-book story Kokilo CTL-based, (2) the feasibility of the e-book story Kokilo CTL-based, and (3) the effectiveness of using the e-book story Kokilo CTL-based in mathematics learning. The research employed the ADDIE development model. The research subjects consisted of 28 third-grade A of SD No. 2 Tibubeneng. Data were collected using non-test methods in the form of questionnaires and test methods. The data were analyzed using qualitative descriptive analysis, quantitative descriptive analysis, and inferential statistical analysis. The results showed that (1) the design of the e-book story Kokilo included a cover page, user guidelines, contextual stories, supporting character and background illustrations, learning competencies, quizzes, and developer profiles. The development process was based on flowcharts, storyboards, and flow diagrams aligned with the ADDIE model, with the design expert evaluation obtaining a score of 92,50% (very good). (2) The feasibility test indicated that the e-book story Kokilo CTL-based was suitable for use in learning, as evidenced by the content expert evaluation score of 96,67% (very good), instructional design expert evaluation score of 96,67% (very good), media expert evaluation score of 96,67% (very good), individual trial score of 95,56% (very good), and small group trial score of 95,37% (very good). (3) Based on the results of the t-test obtained t_{count} was 2,1772, which was greater than the t_{table} value of 1,7033, so that $t_{count} > t_{table}$ (2,1772>1,7033), which means H0 is rejected and H1 is accepted, namely the average post-test results of students using the CTL-based Kokilo story e-book media are more than the BSKAP value (88,93>86). So it can be concluded that the CTL-based Kokilo story e-book product is effectively applied to the mathematical content of the weight unit arithmetic operation material for grade III of SD No. 2 Tibubeneng.

Keywords: E-book story, Learning Outcomes, CTL, Units of Weight