Developing Digital Fairy-tale Book to Increase Integrity and Reduce Learning Loss of Third Grade Elementary School Students

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ABSTRACT

This research aims to 1) produce digital fairytale book media to increase integrity and reduce learning loss for third-grade elementary school students, 2) determine product feasibility based on the validation of material expert and media expert, 3) determine product practicality based on students' and teachers' responses, 4) determine the effectiveness of the product to increase integrity and reduce learning loss for third-grade elementary school students.

This research was a research and development with the ADDIE model. The study was conducted in August-September 2021 and July-September 2022. This research began with a needs analysis at the Wuluhadeg Elementary School in the District of Bantul. The one-on-one and small-group evaluations were conducted on subjects of four and 12 third-grade students at Wuluhadeg State Elementary School. The field evaluations were conducted on subjects of third-grade students of 2 Gadingharjo State Elementary School, with 15 students in the control class (class B) and 15 in the experimental class (class A). Data collection using interviews, observation, questionnaires, scales, and tests. Data analysis techniques used descriptive analysis, the MANOVA (Multivariate Analysis of Variance) test with a significance level of 5% (0,05), the N-Gain test, and the effect size test. This research shows that (1) the digital fairytale book produced by this research is named VIRTUE-BOOK. This product is developed based on the results of needs analysis that 3rd-grade students and teachers need learning media to increase integrity and reduce learning loss and can be used either in online or offline learning. (2) Digital fairytale book is declared feasible based on the validation results of the material expert with a score of 3,7 (very feasible category) and the media expert with a score of 3,56 (very feasible category). (3) The digital fairytale book is practical to be used. Based on the results of the one-on-one evaluation, students' responses scored 85% (very practical category), and the teacher's response scored 3,54 (very practical category). Based on the results of the small-group evaluation, students' responses scored 96,67% (very practical category), and teacher's response scored 3,8 (very practical category). (4) Digital fairytale book effectively increases integrity and reduces learning loss based on the results of field evaluations in the experimental class, the MANOVA test, which obtains a significance of <0,05. The amount of increased integrity and increased learning outcomes (which shows reduced learning loss) in the experimental class based on the N-Gain test on the integrity variable is 0,72 (high category), while the learning loss variable is 0,65 (medium category). The magnitude of the influence of the digital fairytale book in the experimental class based on the effect size test on the integrity variable is 1,05 (large category), and the learning loss is 1.08 (large category).

Kata Kunci: *digital fairytale book, integrity, learning loss*