

Wiwin Eka Alfiana. 2026. Pengembangan Pengembangan Majalah Digital Edukatif Pembuatan Batik Jonegoroan untuk Meningkatkan Literasi Sains. Skripsi Program Studi Pendidikan IPA, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunodjoyo Madura. Pembimbing: Laila Khamsatul Muharrami.

ABSTRAK

Majalah Digital Edukatif Pembuatan Batik Jonegoroan merupakan inovasi media pembelajaran digital yang dirancang menggunakan *software canva* dan dipublish dengan *heyzine flipbook*. Majalah berisi materi IPA yang dikaitkan dengan pembuatan batik Jonegoroan untuk meningkatkan literasi sains. Penelitian bertujuan mengetahui validitas produk, keterbacaan dan respons siswa terhadap produk, dan peningkatan literasi sains pada siswa. Penelitian merupakan R&D dengan model pengembangan ADDIE (*analyze, design, develop, implement, dan evaluate*). Subjek penelitian pada uji coba perorangan yaitu sebanyak 3 siswa kelas IX-A, uji coba kelompok kecil yaitu sebanyak 10 siswa kelas IX-A, dan uji coba kelompok besar yaitu 29 siswa kelas VIII-H. Pengumpulan data menggunakan tes, angket, wawancara, dan dokumentasi. Data hasil validasi, keterbacaan, dan respons siswa dianalisis menggunakan analisis deskriptif kuantitatif berupa persentase, sedangkan peningkatan literasi sains dianalisis menggunakan skor N-gain Hasil penelitian yaitu: (1) Majalah Digital Edukatif Pembuatan Batik Jonegoroan memperoleh rerata validitas media sebesar 93% kategori sangat valid dan rerata validitas materi sebesar 97% kategori sangat valid. (2) Keterbacaan siswa terhadap majalah digital edukatif pembuatan batik Jonegoroan memperoleh rata-rata keseluruhan 86% kategori sangat positif. (3) Respons siswa terhadap Majalah Digital Edukatif Pembuatan Batik Jonegoroan memperoleh rata-rata keseluruhan 87% kategori sangat positif. (4) Hasil tes literasi sains mengalami peningkatan dengan nilai *N-gain* 0,54 kategori sedang. Hal ini menunjukkan bahwa Majalah Digital Edukatif Pembuatan Batik Jonegoroan dapat digunakan dalam pembelajaran dan meningkatkan literasi sains siswa.

Kata Kunci: Batik Jonegoroan; literasi sains; majalah digital

Wiwin Eka Alfiana. 2026. Development of an Educational Digital Magazine on Jonegoroan Batik Making to Improve Science Literacy. Thesis, Science Education Program, Faculty of Teacher Training and Education, Trunodjoyo University of Madura. Advisor: Laila Khamsatul Muharrami.

ABSTRACT

The Digital Educational Magazine on Jonegoroan Batik Making is an innovative digital learning medium designed using Canva software and published through Heyzine Flipbook. The magazine contains science learning materials integrated with the process of making Jonegoroan Batik to improve students' scientific literacy. This study aimed to determine the validity of the product, students' readability and responses to the product, and the improvement of students' scientific literacy. This research employed a Research and Development (R&D) method using the ADDIE development model (Analyze, Design, Develop, Implement, and Evaluate). The subjects consisted of 3 students of class IX-A in the individual trial, 10 students of class IX-A in the small-group trial, and 29 students of class VIII-H in the large-group trial. Data were collected through tests, questionnaires, interviews, and documentation. The validity, readability, and students' response data were analyzed using descriptive quantitative analysis in the form of percentages, while the improvement in scientific literacy was analyzed using the N-gain score. The results showed that: (1) the Digital Educational Magazine on Jonegoroan Batik Making obtained an average media validity score of 93% and an average material validity score of 97%, both categorized as very valid; (2) students' readability of the magazine achieved an average score of 86%, categorized as very positive; (3) students' responses to the magazine obtained an average score of 87%, categorized as very positive; and (4) students' scientific literacy test results improved with an N-gain score of 0.54, categorized as moderate. These findings indicate that the Digital Educational Magazine on Jonegoroan Batik Making is suitable for use in learning activities and can improve students' scientific literacy.

Keywords: digital magazine; Jonegoroan Batik; science literacy