

Rafita Delta Maskara Nusa. 2026. Pengembangan *E-booklet* Konteks Batik Udang Bandeng untuk Meningkatkan Literasi Sains Materi Unsur, Senyawa, dan Campuran. Skripsi. Program Studi Pendidikan IPA. Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunodjoyo Madura. Pembimbing: Aditya Rakhmawan.

ABSTRAK

E-booklet batik udang bandeng merupakan bahan ajar dengan konteks kearifan lokal batik udang bandeng untuk meningkatkan literasi sains materi unsur, senyawa, dan campuran. Penelitian ini bertujuan untuk mengetahui kevalidan, keterbacaan, respons, dan peningkatan literasi sains peserta didik terhadap *e-booklet* yang dikembangkan. Penelitian termasuk jenis pengembangan (*Research and Development*) menggunakan model ADDIE dengan tahap *Analysis, Design, Development, Implementation, dan Evaluation*. Penelitian dilaksanakan di SMP Negeri 2 Krembung. Subjek uji coba perorangan dengan 3 peserta didik kelas IX-A, uji coba kelompok kecil dengan 8 peserta didik kelas IX-A, dan tahap implementasi melibatkan 30 peserta didik kelas VIII-I. Hasil penelitian menunjukkan bahwa validasi ahli materi memperoleh persentase 95,31% dan validasi ahli media 90,28% dengan kategori sangat baik. Hasil angket keterbacaan memperoleh persentase 86,30% dengan kategori sangat baik, hasil angket respons peserta didik memperoleh persentase 84,58% dengan kategori sangat baik. Peningkatan literasi sains peserta didik memperoleh nilai *N-gain* sebesar 0,63 dengan kategori sedang. Berdasarkan hasil tersebut, *e-booklet* Batik Udang Bandeng dinyatakan valid digunakan, memiliki tingkat keterbacaan dan respons yang sangat baik, serta mampu meningkatkan literasi sains peserta didik.

Kata Kunci: *E-booklet*, Kearifan Lokal Batik Udang Bandeng, Literasi Sains, Unsur Senyawa dan Campuran

Rafita Delta Maskara Nusa. 2026. *Development of an E-booklet Based on the Udang Bandeng Batik Context to Improve Scientific Literacy on the topic of Elements, Compounds, and Mixtures. Undergraduate Thesis. Science Education Study Program, Faculty of Teacher Training and Education, University of Trunodjoyo Madura. Advisor: Aditya Rakhmawan.*

ABSTRACT

The Batik Udang Bandeng e-booklet is a learning material developed by integrating the local wisdom context of Batik Udang Bandeng to improve students' scientific literacy on the topic of elements, compounds, and mixtures. This study aimed to determine the validity, readability, student responses, and improvement of scientific literacy resulting from the developed e-booklet. The study employed a Research and Development (R&D) approach using the ADDIE model, which consists of Analysis, Design, Development, Implementation, and Evaluation. The research was conducted at SMP Negeri 2 Krembung. The individual trial involved three students of class IX-A, the small-group trial involved eight students of class IX-A, and the implementation stage involved 30 students of class VIII-I. The results showed that the material validation score was 95.31% and the media validation score was 90.28%, both categorized as very good. The readability questionnaire yielded 86.30%, while the student response questionnaire reached 84.58%, both in the very good category. The scientific literacy improvement obtained an N-gain score of 0.63, categorized as moderate. Therefore, the Batik Udang Bandeng e-booklet is valid, has very good readability and student responses, and effective in improving scientific literacy.

Keywords: E-booklet, Batik Udang Bandeng Local Wisdom, Scientific Literacy, Elements, Compounds, and Mixtures.