

Kharomah Nur Shinta. 2026. Pengembangan *E-magazine* Berbasis Pendekatan SETS untuk Meningkatkan Kemampuan Literasi Sains Siswa pada Materi Bumi dan Tata Surya. Skripsi, Program Studi Pendidikan IPA, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunodjoyo Madura. Pembimbing: Aditya Rakhmawan.

### ABSTRAK

Kemampuan literasi siswa di Indonesia masih tergolong rendah. Maka dari itu, kemampuan literasi sains siswa perlu ditingkatkan melalui penggunaan media ajar interaktif dan kontekstual terutama dalam materi Bumi dan Tata Surya. Penelitian ini bertujuan untuk mengembangkan *e-magazine* berbasis pendekatan SETS untuk meningkatkan kemampuan literasi sains siswa. Penelitian ini menggunakan metode R&D (*Research & Delevopment*) menggunakan model ADDIE yang meliputi siklus *analyze, design, development, implementation, dan evaluation*. Subjek dari penelitian ini siswa kelas VII A di UPTD SMP Negeri 1 Tanah Merah sebanyak 24 siswa. Instrumen penelitian terdiri dari validasi, angket keterbacaan, angket respons siswa, dan tes literasi sains. Hasil penelitian menunjukkan bahwa media *e-magazine* memperoleh persentase validitas materi sebesar 87,15% dengan kriteria sangat valid dan validitas media sebesar 94,64% dengan kriteria sangat valid . Persentase keterbacaan memperoleh persentase sebesar 86,18% dengan kriteria sangat baik dan respons siswa sebesar 85,42% dengan kriteria sangat positif. Peningkatan literasi sains siswa memperoleh nilai N-Gain sebesar 0,41 dengan kriteria sedang. Berdasarkan hasil penelitian, *e-magazine* berbasis pendekatan SETS dinyatakan layak digunakan dalam pembelajaran untuk meningkatkan kemampuan literasi siswa dalam materi Bumi dan Tata Surya.

**Kata kunci:** ADDIE, *e-magazine*, literasi sains, SETS.

*Kharomah Nur Shinta. 2026. Development an E-magazine Based on the SETS Approach to Improve Students' Scientific Literacy Skills Topics Earth and Solar System. Thesis, Science Education Study Program, Faculty of Teacher Training and Education, Trunodjoyo University, Madura. Advisor: Aditya Rakhmawan.*

#### **ABSTRAC**

*Students' Scientific literacy skills in Indonesia remain relatively low. Therefore, students' scientific literacy need to be improved through the use of interactive and contextual learning media, especially in topics' of Earth and the Solar System. This study aims to develop an e-magazine based on the SETS approach to improve students' scientific literacy. This study employed the R&D (Research & Development) method using the ADDIE model, which comprises the cycles of analyse, design, development, implementation, and evaluation. The subjects of this study were 24 students' in Class VII A at UPTD SMP Negeri 1 Tanah Merah. The research instruments consisted of content validation, a readability questionnaire, a student response questionnaire, and a science literacy test. The research results showed that the e-magazine obtained a content validity percentage of 87.15%, meeting the 'highly valid' criterion, and a media validity percentage of 94.64%, also meeting the 'highly valid' criterion. The readability percentage was 86.18%, meeting the 'very good' criterion, and the student response rate was 85.42%, meeting the 'very positive' criterion. The improvement in students' scientific literacy obtained an N-Gain value of 0.41, classified as 'moderate'. Based on the research results, the SETS-based e-magazine is deemed suitable for use in teaching to enhance students' scientific literacy in the subject of Earth and the Solar System.*

**Keyword:** *ADDIE, e-magazine, scientific literacy, SETS.*