

Silvika Aulya Rahma. 2025. *Pengembangan Booklet IPA Berbasis Etnosains Otak-otak Bandeng Gresik Untuk Meningkatkan Literasi Sains Peserta Didik*. Skripsi, Program Studi Pendidikan IPA, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing: Nur Qomaria.

ABSTRAK

Penelitian ini bertujuan untuk mengetahui kevalidan *booklet* IPA berbasis etnosains otak-otak bandeng Gresik, keterbacaan *booklet* IPA, respons peserta didik terhadap *booklet* IPA dan peningkatan literasi sains peserta didik. Penelitian *Research & Development* (R&D) ini menggunakan model *ADDIE* yang terdiri dari tahap *analyze, design, development, implementation, evaluation*. Tahapan implementasi menggunakan desain penelitian *One Group Pretest-Posttest*. Subjek penelitian yaitu peserta didik kelas VIII dan IX UPT SMP Negeri 34 Gresik yang terdiri dari 3 peserta didik kelas IX B untuk uji coba perorangan, 9 peserta didik kelas IX B untuk uji coba kelompok kecil dan 25 peserta didik kelas VIII A untuk tahap implementasi. Hasil penelitian menunjukkan bahwa : 1) *booklet* IPA berbasis etnosains otak-otak bandeng Gresik mendapatkan validitas sangat valid dengan skor validasi 99,17% dan validasi materi dengan skor 96,25%, 2) Keterbacaan *booklet* IPA memperoleh rata-rata 87,71% dengan kriteria sangat baik, 3) Respons peserta didik terhadap *booklet* IPA memperoleh rata-rata 88,00% dengan kriteria sangat baik, 4) *Booklet* IPA Berbasis Etnosains Otak-otak Bandeng Gresik dapat meningkatkan literasi sains peserta didik ditunjukkan melalui hasil *N-Gain* rata-rata sebesar 0,66 yang termasuk kriteria Sedang, dengan demikian *booklet* IPA berbasis etnosains otak-otak bandeng Gresik layak digunakan dalam pembelajaran dan efektif untuk meningkatkan literasi sains peserta didik.

Kata kunci: *Booklet* IPA, Literasi Sains, Otak-otak Bandeng Gresik, Unsur Senyawa dan Campuran.

Silvika Aulya Rahma. 2025. *Development of Ethnoscience-Based Science Booklet Otak-otak Bandeng Gresik to Improve Students' Science Literacy*. Thesis, Science Education Study Program, Faculty of Teacher Training and Education, Universitas Trunojoyo Madura. Advisor: Nur Qomaria.

ABSTRACT

This study aims to determine the validity of the science booklet based on the ethnoscience of gresik's otak-otak bandeng , the readability of the science booklet, students' responses to the science booklet, and improvements in students' science literacy. This Research & Development (R&D) study uses the ADDIE model, which consists of the analyze, design, development, implementation, and evaluation stages. The implementation stage uses a One Group Pretest-Posttest research design. The research subjects were eighth and ninth grade students at UPT SMP Negeri 34 Gresik, consisting of three ninth grade B students for individual testing, nine ninth grade B students for small group testing, and 25 eighth grade A students for the implementation stage. The results of the study showed that: 1) The science booklet based on gresik's otak-otak bandeng ethnoscience obtained very valid validity with a validation score of 99.17% and material validation with a score of 96.25% 2) The readability of the science booklet obtained an average of 87.71% with a very good criterion, 3) Student responses to the science booklet averaged 88.00%, meeting the criteria for very good 4) The Gresik's Otak-otak Bandeng Ethnoscience-Based Science Booklet can improve students' science literacy, as indicated by an average N-Gain score of 0.66, which falls under the moderate criterion. Therefore, the Gresik's Otak-otak Bandeng Ethnoscience-Based Science Booklet is suitable for use in learning and effective in improving students' science literacy.

Keywords: *Science Booklet, Science Literacy, Otak-otak Bandeng Gresik, Compound and Mixed Elements.*