

R'Maya Inky Febrianti. 2025. *Pengembangan buku saku konteks pupuk SARING (Silika anti kering) untuk meningkatkan literasi sains peserta didik*. Skripsi, Program Studi Pendidikan IPA, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing: Dwi Bagus Rendy Astid Putera.

ABSTRAK

Penelitian ini didasarkan karena rendahnya literasi peserta didik khususnya dalam pembelajaran IPA di Indonesia. Salah satu cara untuk meningkatkan literasi sains peserta didik yaitu dengan menggunakan bahan ajar buku saku dalam proses pembelajaran. Buku saku konteks pupuk SARING merupakan bahan ajar berukuran kecil yang berisi bacaan, materi, dan latihan soal yang dihubungkan dengan konteks pupuk SARING. Penelitian bertujuan untuk mengetahui kevalidan, peningkatan kemampuan literasi sains peserta didik, keterbacaan, dan respons peserta didik terhadap buku saku konteks pupuk SARING. Materi yang digunakan pada bahan ajar yang dikembangkan adalah materi unsur, senyawa, dan campuran kelas VIII SMPN/MTsN. Penelitian ini merupakan penelitian *R&D* dengan model pengembangan *ADDIE*. Subjek penelitian ini yaitu seluruh peserta didik kelas VIII-G UPTD SMPN 1 Kamal. Desain penelitian yang digunakan yaitu *one group pretest-posttest*. Teknik analisis data yang digunakan yaitu analisis kevalidan, analisis peningkatan literasi sains, analisis keterbacaan, dan analisis respons peserta didik. Instrumen uji coba yang digunakan yaitu lembar validasi ahli media, lembar validasi ahli materi, tes kemampuan literasi sains peserta didik, angket keterbacaan, dan angket respons peserta didik. Berdasarkan hasil penelitian dapat disimpulkan bahwa: (1) Rata-rata kevalidan ahli media sebesar 82,50% dengan kriteria sangat valid, sedangkan rata-rata validasi ahli materi sebesar 84,56% dengan kriteria sangat valid (2) Hasil *N-Gain* kemampuan literasi sains peserta didik sebesar 0,63 dengan kriteria sedang (3) Rata-rata hasil keterbacaan peserta didik terhadap buku saku konteks pupuk SARING sebesar 94,27% dengan kriteria sangat tinggi (4) Rata-rata hasil angket respons peserta didik terhadap buku saku konteks pupuk SARING sebesar 94,75% dengan kriteria sangat tinggi. Hal tersebut menunjukkan bahwa bahan ajar buku saku konteks pupuk SARING sangat valid digunakan dalam pembelajaran dan dapat meningkatkan kemampuan literasi sains peserta didik.

Kata kunci: Buku saku, Pupuk SARING, Literasi Sains Peserta didik

R'Maya Inkya Febrianti. 2025. Development of a pocket book on the context of SARING fertilizer (anti-drying silica) to improve students' scientific literacy. Thesis, Science Education Study Program, Faculty of Teacher Training and Education, Trunojoyo University, Madura. Advisor: Dwi Bagus Rendy Astid Putera.

ABSTRACT

This study is based on the low literacy of students, especially in science learning in Indonesia. One way to improve students' science literacy is to use pocket book teaching materials in the learning process. The SARING fertilizer context pocket book is a small teaching material containing readings, materials, and practice questions related to the SARING fertilizer context. The study aims to determine the validity, improvement of students' science literacy skills, readability, and student responses to the SARING fertilizer context pocket book. The materials used in the developed teaching materials are the materials of elements, compounds, and mixtures of class VIII SMPN/MTsN. This research is an R&D research with the ADDIE development model. The subjects of this research were all students of class VIII-G UPTD SMPN 1 Kamal. The research design used was one group pretest-posttest. The data analysis techniques used were validity analysis, analysis of increasing scientific literacy, readability analysis, and analysis of student responses. The trial instruments used were media expert validation sheets, material expert validation sheets, student science literacy ability tests, readability questionnaires, and student response questionnaires. Based on the research results, it can be concluded that: (1) The average validity of media experts is 82.50% with very valid criteria, while the average validation of material experts is 84.56% with very valid criteria (2) The N-Gain results of students' scientific literacy abilities are 0.63 with moderate criteria (3) The average results of students' readability of the SARING fertilizer context pocket book are 94.27% with very high criteria (4) The average results of student response questionnaires to the SARING fertilizer context pocket book are 94.75% with very high criteria. This shows that the SARING fertilizer context pocket book teaching material is very valid for use in learning and can improve students' scientific literacy abilities.

Keywords: Pocket book, SARING fertilizer, Student science literacy