

ABSTRAK

Marturia Ririn Christivani Manik. NIM 4213141029. (2021). Pengembangan Buku Saku Berbasis Potensi Lokal Dairi pada Materi Ekosistem Kelas X di SMA Negeri 1 Sumbul. Skripsi. Universitas Negeri Medan.

Penelitian ini bertujuan untuk mengembangkan bahan ajar berupa buku saku berbasis potensi lokal Kabupaten Dairi guna meningkatkan hasil belajar peserta didik kelas X SMA pada materi ekosistem. Penelitian ini menggunakan metode penelitian dan pengembangan dengan model pengembangan 4D yang meliputi tahap *define*, *design*, *develop*, dan *disseminate*. Subjek penelitian terdiri atas 36 peserta didik kelas X, satu guru biologi, satu dosen ahli materi, satu dosen ahli pembelajaran, dan satu dosen ahli desain. Teknik pengumpulan data yang digunakan meliputi observasi, wawancara, angket, dan tes. Analisis data menggunakan skala *Likert* untuk menilai kelayakan produk serta uji N-Gain untuk menganalisis peningkatan hasil belajar peserta didik. Hasil validasi menunjukkan bahwa buku saku yang dikembangkan memperoleh persentase kelayakan sebesar 82,6% dari ahli materi, 96,1% dari ahli pembelajaran, dan 94,6% dari ahli desain, yang seluruhnya termasuk dalam kriteria sangat layak. Respon pendidik terhadap buku saku menunjukkan persentase sebesar 96,1% dengan kriteria sangat layak, sedangkan respon peserta didik pada uji coba kelompok terbatas memperoleh persentase sebesar 91,6% dengan kriteria sangat layak. Hasil uji efektivitas menunjukkan nilai N-Gain sebesar 0,77 (tinggi) dengan persentase keefektifan sebesar 77%. Dengan demikian, buku saku berbasis potensi lokal Kabupaten Dairi dinyatakan efektif dalam meningkatkan hasil belajar peserta didik pada materi ekosistem.

Kata Kunci: Buku Saku, Potensi Lokal, Model 4D



ABSTRACT

Marturia Ririn Christivani Manik. NIM 4213141029. (2021). Development of a Pocket Book Based on Local Potential in Dairi on Ecosystem Material for Grade X at Sumbul State Senior High School 1. Thesis. State University of Medan.

This study aims to develop teaching materials in the form of a pocket book based on the local potential of Dairi Regency to improve the learning outcomes of 10th grade high school students on the subject of ecosystems. This study uses a research and development method with a 4D development model which includes the stages of define, design, develop, and disseminate. The research subjects consisted of 36 tenth-grade students, one biology teacher, one subject matter expert lecturer, one learning expert lecturer, and one design expert lecturer. The data collection techniques used included observation, interviews, questionnaires, and tests. Data analysis used a Likert scale to assess product feasibility and an N-Gain test to analyze improvements in student learning outcomes. The validation results showed that the developed pocket book obtained a feasibility percentage of 82.6% from subject matter experts, 96.1% from learning experts, and 94.6% from design experts, all of which were classified as highly feasible. Educators' responses to the pocketbook showed a percentage of 96.1% with very feasible criteria, while student responses in limited group trials obtained a percentage of 91.6% with very feasible criteria. The effectiveness test results showed an N-Gain value of 0.77 (high) with an effectiveness percentage of 77%. Thus, the pocket book based on the local potential of Dairi Regency was declared effective in improving student learning outcomes on ecosystem material.

Keywords : Pocket Book, Local Potential, 4D Model

