ABSTRAK

Yolana Harefa, NIM 4191141026 (2023). Pengembangan Lembar Kerja Peserta Didik (LKPD) Keanekaragaman Hayati Mangrove berbasis Discovery learning di Hutan Bakau Teluk Siabang Nias Utara

Penelitian pengembangan ini dilakukan untuk menghasilkan Lembar Kerja Peserta Didik (LKPD) keanekaragaman hayati mangrove Teluk Siabang, Nias Utara berbasis discovery learning yang berfungsi sebagai salah satu pilihan bahan ajar untuk meningkatkan pemahaman terkait keanekaragaaman hayati yang berada di lingkungan peserta didik. Instrument yang digunakan untuk mendapatkan data terdiri dari instrument validasi ahli materi, ahli desain, ahli pembelajaran, selanjutnya instrument untuk melihat respon guru dan peserta didik, instrument penilaian keefektifan produk melalui pretest dan posttest pada kelas eksperimen dan kelas kontrol sebagai pembanding. Setelah seluruh data yang dikumpulkan melalui instrument diperoleh, dan LKPD telah dikategorikan valid, kemudian dilakukan uji coba lapangan terhadap pembelajaran biologi di SMA N.1 Lotu, Nias Utara. Hasil yang diperoleh yaitu (1) LKPD yang dikembangkan menurut ahli materi dikategorikan sangat layak dengan nilai 93.84; (2) Penilaian dari ahli desain masuk pada kategori sangat layak dengan nilai 96; (3) 96.92 adalah nilai yang diberikan ahli pembelajaran, dikategorikan sangat layak; (4) Respon yang diberikan guru SMA N. 1 Lotu, Nias Utara masuk dalam kategori layak dengan nilai 81.66; (5) Respon peserta didik dikategorikan sangat layak dengan nilai 98.51; dan (6) Produk yang dikembangkan memenuhi kriteria efektif dengan ketuntasan belajar mencapai 85% pada kelas eksperimen, sedangkan pada kelas kontrol tidak ada peserta didik yang memenuhi kriteria ketuntasan minimum. Berdasarkan analisis nilai hasil belajar peserta didik melalui pretest dan posttest diperoleh N-gain sebesar 0.71 (kategori tinggi) pada kelas eksperimen dan pada kelas kontrol diperoleh N-gain sebesar 0,21 (kategori rendah). Dari nilai yang diperoleh produk dikatakan efektif meningkatkan hasil belajar peserta didik.

Kata Kunci: LKPD, Keanekaragaman Hayati, Mangrove, *Discovery Learning*.

ABSTRACT

Yolana Harefa, NIM 4191141026 (2023). Worksheet Development Mangrove Biodiversity Students (LKPD) based Discovery learning in the Bay Mangrove Forest Siabang North Nias

This development research was conducted to produce a Student Worksheet (LKPD) on mangrove biodiversity in Siabang Bay, North Nias based on *discovery learning* which serves as one of the choices of teaching materials to increase understanding related to biodiversity in the environment of students. The instruments used to obtain data consist of material expert validation instruments, design experts, learning experts, then instruments to see the responses of educators and students, product effectiveness assessment instruments through pretest and posttest in experimental classes and control classes as a comparison. After all data collected through the instrument were obtained, and the LKPD was categorized as valid, then field trials were carried out on biology learning at SMA N.1 Lotu, North Nias. The results obtained are (1) LKPD developed according to material experts is categorized as very feasible with a value of 93.84; (2) The assessment of design experts is included in the very decent category with a value of 96; (3) 96.92 is the value given by learning experts, categorized as very feasible; (4) The response given by the teacher of SMA N. 1 Lotu, North Nias was included in the decent category with a value of 81.66; (5) Student responses are categorized as very feasible with a value of 98.51; and (6) The product developed meets the effective criteria with learning completeness reaching 85% in the experimental class, while in the control class there are no students who meet the minimum completeness criteria. Based on the analysis of the value of student learning outcomes through pretest and posttest, N-gain of 0.71 (high category) was obtained in the experimental class and in the control class obtained N-gain of 0.21 (low category). Based on the value obtained, the product is said to be effective in improving student learning outcomes.

Keywords: LKPD, diversity biology, mangroves, *discovery learning*.