

ABSTRAK

Leny Nauliana Barus, NIM 4183111062 (2022). Pengembangan Elektronik Lembar Kerja Peserta Didik (E-LKPD) Desmos Berbasis Problem Based Learning Untuk Meningkatkan Kemampuan Berpikir Kritis Matematis Siswa.

Penelitian ini bertujuan untuk mendeskripsikan: peningkatan kemampuan berpikir kritis matematis siswa dengan menggunakan Elektronik Lembar Kerja Peserta Didik (E-LKPD) Desmos berbasis Problem Based Learning yang dikembangkan, respon siswa setelah menggunakan E-LKPD Desmos, serta efektivitas dan praktikalitas E-LKPD Desmos berbasis Problem Based Learning yang dikembangkan. Penelitian ini merupakan penelitian pengembangan dengan model 4-D yang dibatasi penyebaran terbatas pada kelas VIII SMP Negeri 1 Babalan. Subjek penelitian ini adalah siswa kelas VIII-4 SMP Negeri 1 Babalan yang berjumlah 31 siswa. Dari hasil penelitian diperoleh bahwa: (1) Berdasarkan aspek kemampuan berpikir kritis, aspek interpretasi meningkat sebesar 9%, aspek analisis meningkat sebesar 18%, aspek evaluasi meningkat sebesar 42%, dan aspek inferensi meningkat sebesar 48%. (2) Hasil respon siswa termasuk pada kategori baik dengan persentase 80,31%. (3) E-LKPD Desmos berbasis Problem Based Learning yang dikembangkan telah memenuhi kriteria efektif ditinjau dari penilaian ahli media, ahli materi, dan ahli pengguna yang berada pada kategori valid, ketuntasan belajar secara klasikal telah tercapai sebesar 80,65%, dan hasil Gain berada pada 0,5 dengan kategori sedang. Hasil uji kepraktisan mendapatkan 92,18% pada kategori sangat praktis,

Kata kunci : Penelitian pengembangan, E-LKPD, Desmos, Perangkat pembelajaran, Kemampuan berpikir kritis matematis.

THE
Character Building
UNIVERSITY

ABSTRACT

Leny Nauliana Barus, NIM 4183111062 (2022). Development Of Desmos Electronic Students' Activities Sheet (E-LKPD) Based On The Problem Based Learning To Improve Students' Mathematical Critical Thinking Skills.

This study aims to describe: the improvement of students' mathematical critical thinking skills using the Desmos Electronic Student Worksheet (E-LKPD) based on Problem Based Learning that was developed, student responses after using the Desmos E-LKPD, as well as the effectiveness and practicality of the Desmos-based E-LKPD Problem Based Learning developed. This research is development research with a 4-D model which is limited to distribution in class VIII of SMP Negeri 1 Babalan. The subjects of this study were students of class VIII-4 of SMP Negeri 1 Babalan with a total of 31 students. From the results of the study, it was found that: (1) Based on the aspect of critical thinking skills, the interpretation aspect increased by 9%, the analytical aspect increased by 18%, the evaluation aspect increased by 42%, and the inference aspect increased by 48%. (2) The results of student responses are included in the good category with a percentage of 80.31%. (3) The Problem Based Learning-based Desmos E-LKPD that was developed has met the effective criteria in terms of the assessments of media experts, material experts, and user experts who are in the valid category, classical learning completeness has been achieved 80.65%, and Gain results is 0.5 with the medium category. The results of the practicality test get 92.18% in the very practical category.

Keywords : Development research, E-LKPD, Desmos, Learning tools, Mathematical critical thinking skills.

THE
Character Building
UNIVERSITY