PENGEMBANGAN UNIT KEGIATAN BELAJAR BERBASIS PERCOBAAN PEMBUKTIAN PADA MATERI HUKUM DASAR KIMIA

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ABSTRAK

Penelitian ini bertujuan untuk mendeskripsikan dan menjelaskan karakteristik, validitas, kepraktisan, dan keefektifan unit kegiatan belajar (UKB) berbasis percobaan pembuktian pada materi hukum dasar kimia. Jenis penelitian ini merupakan penelitian dan pengembangan (R&D) dengan menggunakan model Borg dan Gall, namun dimodifikasi sampai tahap keempat. Tahapan penelitian meliputi 1) analisis kebutuhan, 2) perencanaan, 3) pengembangan produk, dan 4) uji coba terbatas. Produk UKB yang dikembangakan dinilai dari aspek kevalidan, kepraktisan, dan keefektifan. Validasi UKB melibatkan dua orang ahli isi-konstruksi dan satu orang ahli bahasa. Uji kepraktisan UKB melibatkan 10 guru kimia SMA. Uji keefektifan UKB dilaksanakan di SMA Negeri 2 Amlapura di kelas X 5 dengan jumlah siswa sebanyak 37 orang. Hasil penelitian menunjukkan bahwa UKB berbasis percobaan pembuktian pada materi hukum dasar kimia memenuhi kriteria valid dengan skor rata-rata 1,0 yang terkategori validasi sangat tinggi. Hasil uji kepraktisan menghasilkan skor rata-rata sebesar 3,4 dengan kategori praktis. UKB berbasis percobaan pembuktian yang dikembangkan telah memenuhi kriteria keefektifan. Hal ini dilihat dari hasil persentase nilai siswa yang telah memenuhi kriteria kelulusan minimal (KKM) yaitu 81%.

Kata kunci: hukum dasar kimia, percobaan pembuktian, unit kegiatan belajar.

THE DEVELOPMENT OF LEARNING ACTIVITY UNIT BASED ON EVIDENTIARY EXPERIMENT ON THE TOPIC OF BASIC CHEMISTRY LAWS

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ABSTRACT

This research aimed to describe and explain the characteristics, validity, practicality, and effectiveness of learning activity unit (UKB) based on evidentiary experiment on the topic of basic chemistry laws. This type of research was research and development (R&D) using the Borg and Gall model. The research stages undertaken were (1) needs analysis, (2) planning, (3) product development, and (4) limited trials. A cultivated UKB product was judged on its validity, practicality, and effectiveness. The UKB validation involves two ist-construction experts and one linguist. Elective trials involve 10 chemistry teachers. The effectiveness test was conducted at SMA Negeri 2 Amlapura in X5 class involving 37 students. Research shows that UKB based on evidentiary experiment on the topic of basic chemistry laws meet valid criteria with an average score of 1.0 rated validation is very high. Practical test results came up with a 3.4 average score in practical categories. UKB based on evidentiary experiment developed to meet effectiveness criteria. This is viewed by the students' percentage score that have met the Minimum Criteria of Mastery Learning (KKM) of 81%.

Key words: basic chemistry laws, evidentiary experiment, learning activity unit.