

PENGEMBANGAN UNIT KEGIATAN BELAJAR BERORIENTASI PERCOBAAN PEMBUKTIAN PADA MATERI ASAM BASA

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ABSTRAK

Penelitian pengembangan ini bertujuan untuk mendeskripsikan dan menjelaskan (1) karakteristik unit kegiatan belajar yang berorientasi pada percobaan pembuktian di materi asam basa, serta (2) kevalidan, kepraktisan, dan keefektifan unit kegiatan belajar berorientasi percobaan pembuktian pada materi asam basa. Desain penelitian pengembangan yang digunakan diadaptasi dari model Borg & Gall. Tahapan penelitian yang dilakukan adalah (1) analisis kebutuhan, (2) perencanaan, (3) pengembangan produk, dan (4) uji coba terbatas yang meliputi uji kepraktisan dan keefektifan. Komponen yang terdapat dalam unit kegiatan belajar berorientasi percobaan pembuktian pada materi asam basa terdiri atas tiga komponen utama yaitu penemuan konsep, pembuktian konsep (praktikum), dan aplikasi konsep. Komponen lainnya seperti halaman depan, identitas, petunjuk umum UKB, uraian materi serta terdapat komponen tambahan berupa RPP dan kunci jawaban untuk UKB pegangan guru. Uji keefektifan dilaksanakan di SMA Negeri 1 Kediri di kelas XI MIPA 1 dengan jumlah peserta didik sebanyak 35 orang. Hasil penelitian menunjukkan bahwa unit kegiatan belajar berorientasi percobaan pembuktian pada materi asam basa memenuhi kriteria kevalidan dengan skor rata-rata 1,0 yang terkategori validasi tinggi sesuai dengan perhitungan menurut *Gregory*, memenuhi kriteria kepraktisan dengan skor rata-rata 3,6 yang terkategori sangat praktis. Unit kegiatan belajar juga terbukti efektif dalam meningkatkan hasil belajar dengan persentase peserta didik yang memenuhi kriteria ketuntasan minimal (KKM) sebesar 94,28% serta hasil penilaian sikap dan keterampilan yang memenuhi kategori baik.

Kata-kata kunci: unit kegiatan belajar, percobaan pembuktian, asam basa

THE DEVELOPMENT OF LEARNING ACTIVITY UNIT ORIENTED ON VERIFICATIVE EXPERIMENT ON THE TOPIC OF ACID BASE

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Abstract

This Research and Development (R&D) aimed at describing and explaining (1) the characteristics of learning activity unit which is oriented to verificative experiment in acid-base material, and (2) the validity, practicality, and effectiveness of the learning activity unit which is oriented to the proof of experiment. The R&D design used was adapted from the Borg & Gall model. The procedures of research were (1) needs analysis, (2) planning, (3) product development, and (4) limited trial including practicality and effectiveness tests. The components contained in the learning activity unit oriented on the verificative experiment in acid-base material consisted of three main components, namely concept discovery, proof of concept (practicum), and application of concepts. Other components such as the front page, identity, general guidelines for learning activity unit (*Unit Kegiatan Belajar or UKB*), as well as additional components in the form of lesson plans and answer keys for the UKB teacher handbook. The effectiveness test was conducted at SMA Negeri 1 Kediri in XI MIPA 1 class involving 35 students. The results showed that the learning activity unit oriented on the verificative experiment on acid-base material met the validity criteria with an average score of 1.0 categorized as high validation according to calculations according to Gregory. It met the practicality criteria with an average score of 3.6 categorized as very practical. The learning activity unit also proved effective in improving learning outcomes with the percentage of students who met the Minimum Criteria of Mastery Learning (*KKM*) which was 94.28% and the results of the attitude and skills assessment results were in the good category.

Key words: learning activity unit, verificative experiment, acid-base