

PENGEMBANGAN UNIT KEGIATAN BELAJAR BERORIENTASI PERCOBAAN PEMBUKTIAN PADA MATERI KOLOID

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ABSTRAK

Penelitian ini bertujuan mendeskripsikan dan menjelaskan karakteristik, kevalidan, kepraktisan, dan keefektifan unit kegiatan belajar berorientasi percobaan pembuktian materi koloid. Penelitian dan pengembangan ini menggunakan model Borg dan Gall yang dimodifikasi. Tahapan yang dilakukan, yaitu: 1) tahap analisis kebutuhan, 2) perencanaan, 3) pengembangan produk, dan 4) uji coba produk. Instrumen yang digunakan, yaitu catatan dokumen, lembar validasi, dan angket kepraktisan. Karakteristik unit kegiatan belajar berorientasi percobaan pembuktian pada materi koloid, yaitu kegiatan penemuan konsep, kegiatan pembuktian konsep dengan praktikum, dan kegiatan aplikasi konsep. Hasil penelitian menunjukkan bahwa unit kegiatan belajar berorientasi percobaan pembuktian pada materi koloid yang dikembangkan memenuhi kriteria kevalidan dengan skor rata-rata validitas sebesar 1,0 dari skor tertinggi 1,0 dengan kategori validitas sangat tinggi dan memenuhi kriteria kepraktisan dengan skor rata-rata sebesar 3,29 dalam skala 4,0 dengan kategori praktis. Uji keefektifan tidak dapat dilaksanakan karena kondisi yang tidak memungkinkan yaitu pandemi Covid-19. Berdasarkan hasil penelitian dan analisis data dapat disimpulkan bahwa unit kegiatan belajar yang dikembangkan layak digunakan sebagai alternatif sumber belajar.

Kata kunci: koloid, percobaan pembuktian, unit kegiatan belajar.

THE DEVELOPMENT OF LEARNING ACTIVITY UNIT ORIENTED ON VERIFICATIVE EXPERIMENT ON THE TOPIC OF COLLOID

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ABSTRACT

The research aimed to describe and explain characteristic, the validity, the practicality, and the effectiveness of learning activity unit oriented on verificative experiment on the topic of colloid. This research and development used the modified Borg and Gall model. The stages carried out for this research were: 1) Analyzing needs, 2) Planning, 3) Product development, 4) Product trials. The instruments used were field notes, the validation sheet, and practicality questionnaire. The characteristics of learning activity unit oriented on verificative experiment on the topic of colloid were a concept discovery activities, verification of concept by experiment, and concept application activities. The result showed the developed of learning activity unit oriented on verificative experiment on the topic of colloid meet the validity criteria with an average validity score of 1.0 from the highest score of 1.0 with a very high validity category and it meets the practicality criteria with an average score of 3.29 on a 4.0 scale with the practical category. Effectiveness trial could not be conducted due to the Covid-19 pandemic. Based on the results and data analysis of the research it can be concluded that the learning activity unit developed is feasible to be used as an alternative learning resource.

Key words: colloid, verificative experiment, learning activity unit.