

ABSTRAK

PENGEMBANGAN LKPD INTERAKTIF BERORIENTASI INKUIRI TERBIMBING DENGAN DIFERENSIASI KONTEN MENGGUNAKAN QUIZIZZ PADA MATERI SISTEM PERIODIK UNSUR

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Pembelajaran kimia pada materi Sistem Periodik Unsur masih menghadapi kendala karena sifatnya yang abstrak dan teoritis, sehingga peserta didik kesulitan memahami hubungan konfigurasi elektron pada subkulit s, p, d, dan f dengan penentuan golongan dan periode unsur. Hal ini terjadi karena pembelajaran masih didominasi metode ceramah, kurangnya interaksi, dan pemanfaatan *platform* digital oleh guru belum optimal, sehingga peserta didik menjadi kurang aktif dan hasil belajar rendah. Untuk mengatasi hal tersebut, salah satu alternatif yang ditawarkan adalah pengembangan LKPD interaktif berorientasi inkuiri terbimbing dengan diferensiasi konten menggunakan Quizizz pada materi SPU agar pembelajaran lebih menarik dan efektif. LKPD ini menyajikan variasi tingkat kesulitan soal, video, gambar, teks, studi kasus, dan permainan edukatif yang disesuaikan dengan kemampuan peserta didik. Penelitian ini bertujuan untuk: (1) mengetahui validitas, keefektifan, dan kepraktisan produk berupa LKPD interaktif; (2) mengetahui respon peserta didik terhadap produk. Jenis penelitian yang digunakan adalah *Research and Development* (R&D) dengan model 3D yang meliputi tahap *Define*, *Design*, dan *Develop*. Instrumen yang digunakan terdiri atas lembar wawancara, lembar validasi, butir soal dalam produk, dan angket respon peserta didik. Subjek penelitian adalah 10 peserta didik kelas XI F1 SMA Negeri 1 Banguntapan. Hasil penelitian menunjukkan bahwa: (1) Produk memenuhi kriteria sangat valid dengan rata-rata sebesar 95,2%, sangat efektif dengan rata-rata hasil jawaban dalam produk sebesar 83,6, dan praktis dengan rata-rata sebesar 80% dan (2) Respon peserta didik juga tergolong baik dengan rata-rata sebesar 80% yang menunjukkan bahwa produk menarik, mudah digunakan, dan mudah dipahami peserta didik.

Kata kunci: Diferensiasi Konten, Inkuiri Terbimbing, LKPD Interaktif, Quizizz, Sistem Periodik Unsur

ABSTRACT

DEVELOPMENT OF GUIDED INQUIRY- ORIENTED INTERACTIVE STUDENTS' WORKSHEET WITH CONTENT DIFFERENTIATION USING QUIZZZ ON THE PERIODIC SYSTEM OF ELEMENTS

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Chemistry learning on the Periodic Table of Elements material still faces obstacles due to its abstract and theoretical nature, so that students have difficulty understanding the relationship between electron configurations in the s, p, d, and f subshells with the determination of element groups and periods. This occurs because learning is still dominated by lecture methods, lack of interaction, and the use of digital platforms by teachers is not optimal, so that students become less active and learning outcomes are low. To overcome this, one alternative offered is the development of interactive Student's worksheet oriented guided inquiry with content differentiation using Quizizz on SPU material to make learning more interesting and effective. This worksheet presents various levels of difficulty of questions, videos, images, texts, case studies, and educational games that are adjusted to students' abilities. This study aims to: (1) determine the validity, effectiveness, and practicality of the product in the form of an interactive worksheet; (2) determine students' responses to the product. The type of research used is Research and Development (R&D) with a 3D model that includes the Define, Design, and Develop stages. The instruments used consist of interview sheets, validation sheets, questions in the product, and student response questionnaire. The research subjects were 10 students of class XI F1 of SMA Negeri 1 Banguntapan. The results of the study showed that: (1) The product met the criteria of very valid with an average of 95.2%, very effective with an average of 83.6 answers in the product, and practical with an average of 80% and (2) The students' responses were also classified as good with an average of 80% which showed that the product was attractive, easy to use, and easy for students to understand.

Keywords: Content Differentiation, Guided Inquiry, Interactive Student Worksheet, Quizizz, Periodic Table of Elements