

ABSTRAK

**PENGEMBANGAN LKPD INTERAKTIF BERBASIS *PROCESS ORIENTED GUIDED INQUIRY LEARNING* (POGIL)
MENGUNAKAN QUIZIZZ PADA MATERI
REAKSI REDOKS**

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Peserta didik mengalami kesulitan dalam mempelajari materi reaksi redoks pada penentuan perubahan bilangan oksidasi pada reaktan dan produk. Faktor penyebab kesulitan tersebut adalah materi yang sangat konseptual dan kurangnya motivasi saat belajar reaksi redoks. Bahan ajar yang digunakan di SMA Pangudi Luhur St. Louis IX Sedayu adalah LKPD elektronik dengan format PDF. Peserta didik membutuhkan LKPD interaktif berbasis model POGIL yang mampu meningkatkan pemahaman konsep melalui pemanfaatan Quizizz. Penelitian ini bertujuan untuk: (1) menghasilkan produk yang telah memenuhi kriteria valid, efektif, dan praktis dan (2) mengetahui respon peserta didik setelah menggunakan produk. Penelitian ini merupakan *Research & Development* dengan model 3D yaitu *Define, Design, dan Development*. Instrumen penelitian mencakup lembar wawancara, validasi produk, butir soal, dan angket respon. Penelitian ini melibatkan 10 orang peserta didik kelas XII yang dipilih berdasarkan teknik *purposive sampling*. Data penelitian dianalisis secara kualitatif dan kuantitatif. Hasil penelitian menunjukkan bahwa: (1) produk telah memenuhi kriteria sangat valid dan sangat layak dengan rata-rata persentase sebesar 98,44%, efektif dengan perolehan rata-rata nilai pengerjaan soal sebesar 72 yang didukung dengan nilai rata-rata persentase ketuntasan pengerjaan soal sebesar 73,70%, dan sangat praktis dengan rata-rata persentase sebesar 94%. (2) Respon peserta didik terhadap produk sangat baik dengan rata-rata persentase sebesar 94,19%. Peserta didik merespon positif terhadap produk bahwa produk menarik dan pembelajaran lebih menyenangkan.

Kata Kunci: LKPD interaktif, POGIL, Quizizz, Reaksi Redoks

ABSTRACT***DEVELOPMENT OF INTERACTIVE STUDENT'S WORKSHEET BASED ON PROCESS ORIENTED GUIDED INQUIRY LEARNING (POGIL) USING QUIZIZZ ON THE TOPIC OF REDOX REACTIONS***

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Students have difficulty in learning redox reaction material on determining changes in oxidation state of reactants and products. The factors causing these difficulties are very conceptual material and lack of motivation when learning redox reactions. The teaching materials used at Pangudi Luhur St. Louis IX Sedayu High School are electronic LKPDs in PDF format. Students need interactive LKPD based on the POGIL model that can improve concept understanding through the use of Quizizz. This research aims to: (1) produce products that meet the criteria of valid, effective, and practical and (2) determine the response of students after using the product. This research is a Research & Development with a 3D model, Define, Design, and Development. The research instruments included interview sheets, product validation, question items, and response questionnaires. This study involved 10 students of class XII who were selected based on purposive sampling technique. The research data were analyzed qualitatively and quantitatively. The results showed that: (1) the product has met the criteria of being very valid and very feasible with an average percentage of 98.44%, effective with the acquisition of an average question processing value of 72 which is supported by the average percentage value of question processing completeness of 73.70%, and very practical with an average percentage of 94%. (2) The students' response to the product was very good with an average percentage of 94.19%. Learners responded positively to the product that the product was interesting and learning was more fun.

Keywords: *Interactive Student's Worksheet, POGIL, Quizizz, Redox Reactions*