

ABSTRAK

PENERAPAN MODEL *PROBLEM BASED LEARNING* (PBL) BERBANTUKAN VIDEO PEMBELAJARAN REDOKS BERBASIS CANVA UNTUK MENINGKATKAN KEMAMPUAN HOTS

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Higher Order Thinking Skills (HOTS) merupakan kemampuan berpikir tingkat tinggi yang meliputi kemampuan menganalisis, mengevaluasi, dan mencipta, serta menjadi bagian penting dalam Kurikulum Merdeka. Namun, di SMA Negeri 1 Idanotae, kemampuan HOTS siswa pada materi reaksi redoks masih tergolong rendah. Hal ini disebabkan oleh kurangnya penerapan model pembelajaran yang inovatif serta minimnya penggunaan media pembelajaran yang interaktif. Penelitian ini bertujuan untuk mengetahui pengaruh penerapan model *Problem Based Learning* (PBL) berbantuan video pembelajaran redoks berbasis Canva dalam meningkatkan kemampuan HOTS siswa. Metode yang digunakan adalah eksperimen semu dengan desain *Pretest-Posttest Randomized Control Group Design*. Sampel penelitian adalah siswa kelas X di SMA Negeri 1 Idanotae, yang dibagi menjadi kelas eksperimen dan kelas kontrol. Instrumen penelitian berupa tes HOTS, angket respon siswa, dan lembar observasi. Hasil penelitian menunjukkan bahwa terdapat peningkatan signifikan kemampuan HOTS siswa pada kelas eksperimen dibandingkan kelas kontrol. Hal ini ditunjukkan oleh hasil uji *Independent Sample T-test* dengan nilai signifikansi $0,000 < 0,05$ dan nilai *N-Gain* sebesar 0,65 dalam kategori sedang. Respon siswa terhadap pembelajaran juga sangat positif dengan persentase 90,83%. Dengan demikian, dapat disimpulkan bahwa penerapan model PBL berbantuan video pembelajaran redoks berbasis Canva efektif dalam meningkatkan kemampuan HOTS siswa pada materi reaksi redoks.

Kata kunci : *Higher Order Thinking Skills* (HOTS), *Problem Based Learning* (PBL), Canva, Video Pembelajaran, Reaksi Redoks.

ABSTRACT

APPLICATION OF *PROBLEM BASED LEARNING* (PBL) MODEL ASSISTED BY REDOX LEARNING VIDEO BASED ON CANVA TO IMPROVE THE HOTS ABILITY

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Higher Order Thinking Skills (HOTS) are high-level thinking skills that include the ability to analyze, evaluate, and create, and are an important part of the Merdeka Curriculum. However, the students' HOTS abilities at SMA Negeri 1 Idanotae in redox reaction material are still relatively low. This is due to the lack of the application of innovative learning models and the minimal use of the interactive learning media. This study aims to determine the effect of implementing the *Problem Based Learning* (PBL) model assisted by redox learning videos based on Canva in improving the students' HOTS abilities. The method used is a quasi-experiment with a *Pretest-Posttest Randomized Control Group Design*. The sample of the research was the students of grade X at SMA Negeri 1 Idanotae, which were divided into experimental and control classes. The research instruments were HOTS tests, student response questionnaires, and observation sheets. The results showed that there was a significant increase on the students' HOTS abilities in the experimental class compared to the control class. This is indicated by the results of the Independent Sample T-test with a significance value of $0.000 < 0.05$ and an N-Gain value of 0.65 in the moderate category. The students' responses to learning were also very positive with a percentage of 90.83%. Thus, it can be concluded that the application of the PBL model assisted by redox learning videos based on Canva is effective in improving the students' HOTS abilities in redox reaction material.

Keywords : *Higher Order Thinking Skills (HOTS), Problem Based Learning (PBL), Canva, Learning Video, Redox Reactions*

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