

ABSTRAK

Alfernando Gulo NIM (4173331005) Pengaruh Model Problem Based Learning dengan Media Video Animasi Terhadap Hasil Belajar Siswa Pada Materi Konsep Asam Basa Kelas XI di SMA Negeri 15 Medan

Penelitian ini bertujuan untuk mengetahui pengaruh model Problem Based Learning dengan media video animasi terhadap hasil belajar siswa pada materi konsep asam-basa kelas XI di SMA Negeri 15 Medan. Sampel penelitian ini melibatkan dua kelas yaitu kelas XI IPA 1 sebagai kelas eksperimen dan kelas XI IPA 2 sebagai kelas kontrol. Untuk memperoleh data yang diperlukan dalam penelitian ini digunakan tes pilihan berganda yang berjumlah sebanyak 20 soal dengan 5 pilihan jawaban yang telah divalidasi oleh Validator ahli, dan kemudian diujicobakan kepada siswa untuk mengetahui validitas, reliabilitas, tingkat kesukaran, dan daya beda soal. Dari hasil penelitian diperoleh data nilai rata-rata pretest siswa kelas eksperimen sebesar 36,37 sedangkan nilai rata-rata pretest siswa kelas kontrol sebesar 34,00. Dan nilai rata-rata hasil belajar siswa kelas eksperimen sebesar 82,08 sedangkan nilai rata-rata hasil belajar siswa kelas kontrol sebesar 76,14. Uji hipotesis yang digunakan dalam penelitian ini adalah uji Independent Sample t-Test dengan menggunakan software *SPSS versi 25 for windows* dengan taraf signifikansi sebesar 0,05. Dari pengujian hipotesis diperoleh nilai signifikansi = 0,004 < 0,05, sehingga dapat disimpulkan bahwa H_a diterima atau H_0 ditolak. Dari pengujian hipotesis dapat disimpulkan bahwa rata-rata model *Problem Based Learning* dengan media video animasi berpengaruh secara signifikan terhadap hasil belajar siswa pada materi konsep asam-basa kelas XI di SMA Negeri 15 Medan.

Kata Kunci: Hasil Belajar Siswa, *Problem Based Learning*, Video Animasi, Asam Basa



ABSTRACT

Alfernando Gulo NIM (4173331005) The Effect of the Problem Based Learning Model with Animated Video Media on Student Learning Outcomes on the Concept of Acid-Base Class XI in SMA Negeri 15 Medan

This study aims to determine the effect of the Problem Based Learning model with animated video media on student learning outcomes on the acid-base concept material of class XI at SMA Negeri 15 Medan. The research sample involved two classes, namely class XI IPA 1 as the experimental class and class XI IPA 2 as the control class. To obtain the data needed in this study, a multiple choice test was used which amounted to 20 questions with 5 answer choices that had been validated by an expert validator, and then tested on students to find out the validity, reliability, difficulty level, and different power of the questions. From the research results, it was obtained that the pretest average value of the experimental class students was 36,37, while the pretest average score of the control class students was 34,00. And the average value of student learning outcomes in the experimental class was 82,08, while the average value of student learning outcomes in the control class was 76,14. The hypothesis test used in this study is the Independent Sample t-Test using SPSS version 25 for windows software with a significance level of 0.05. From the hypothesis testing, the significance value is obtained = $0.004 < 0.05$, so it can be concluded that H_a is accepted or H_0 is rejected. From the hypothesis testing, it can be concluded that the average Problem Based Learning model with animated video media has a significant effect on student learning outcomes on the acid-base concept material of class XI at SMA Negeri 15 Medan.

Keywords: Student Learning Outcomes, Problem Based Learning, Video Animation, Acid-Base

