

ABSTRACT

Muhammad Fadli Harahap, NIM 4163331018 (2020). Analysis of PBL with DL Using Macromedia Flash on Motivation and Student Learning Outcomes in Thermochemical Materials in SMA Negeri 10 Medan

This study aims (1) to determine whether the average value of student learning outcomes taught by the PBL and DL models is greater than the KKM (2) to determine whether the interaction between PBL and DL class and learning motivation on student learning outcomes scores. This research is a type of research One-group pretest-posttest design. The analysis technique used is (1) one sample t-test (2) Two Way Anava with the help of SPSS 20. From the results of data analysis of learning outcomes obtained (1) differences in student learning outcomes (80.47 ± 8.363) are taught by applying Problem Based Learning model uses macromedia flash and student learning outcomes ($78,269 \pm 9,994$) who are taught by applying the Discovery Learning model using macromedia flash where the t test is obtained of 1.684. (2) There is an interaction between PBL and DL class and motivation towards student learning outcomes. The interaction analysis shows that factor A has a F-hit value of $6.235 > F_{table} 4.00$ and a sig value of $0.015 < 0.05$ means that factor A is real; factor B has a Fhit value of $0.025 < F_{table} 4.00$ and a sig value of $0.975 > 0.05$ means that factor B is not significant; the result of the interaction of the factor AB has a F-hit value of $3.860 > F_{table} 3.45$ and a sig value of $0.027 < 0.05$ means that the AB factor is real.

Keywords: Problem Based Learning, Discovery Learning, Macromedia Flash, Learning Outcomes, Learning Motivation

ABSTRAK

Muhammad Fadli Harahap, NIM 4163331018 (2020). Analisis PBL dengan DL Menggunakan Macromedia Flash Terhadap Motivasi dan Hasil Belajar Siswa Pada Materi Termokimia di SMA Negeri 10 Medan

Penelitian ini bertujuan (1) untuk mengetahui apakah nilai rata-rata hasil belajar siswa yang dibelajarkan dengan model PBL dan DL lebih besar daripada nilai KKM (2) Untuk mengetahui apakah interaksi kelas PBL dengan DL dan motivasi belajar terhadap nilai hasil belajar siswa. Penelitian ini merupakan jenis penelitian *One-Group pretest-posttest Design*. Teknik analisis yang digunakan adalah (1) uji one sample t-test (2) Anava Two Way dengan bantuan *SPSS 20*. Dari hasil analisa data hasil belajar diperoleh (1) perbedaan hasil belajar siswa ($80,47 \pm 8,363$) yang diajarkan dengan menerapkan model *Problem Based Learning* menggunakan *macromedia flash* dan hasil belajar siswa ($78,269 \pm 9,994$) yang diajarkan dengan menerapkan model *Discovery Learning* menggunakan *macromedia flash* dimana diperoleh uji t sebesar 1,684. (2) Terdapat terdapat interaksi kelas PBL dengan DL dan motivasi terhadap nilai hasil belajar siswa. Analisis interaksi diperoleh faktor A memiliki harga F_{hit} sebesar $6,235 > F_{tabel} 4,00$ dan nilai sig $0,015 < 0,05$ berarti faktor A nyata; faktor B memiliki harga F_{hit} sebesar $0,025 < F_{tabel} 4,00$ dan nilai sig $0,975 > 0,05$ berarti faktor B tidak nyata; hasil interaksi faktor AB memiliki harga F_{hit} sebesar $3,860 > F_{tabel} 3,45$ dan nilai sig $0,027 < 0,05$ berarti faktor AB nyata.

Kata kunci : *Problem Based Learning, Discovery Learning, Macromedia Flash, Hasil Belajar, Motivasi Belajar*