

ABSTRAK

Nurul Fajirah, NIM 4203331002 (2024). Pengaruh Model Pembelajaran *Project Based Learning (PjBL)* Berbantuan Video Animasi Terhadap Kemampuan Berpikir Kreatif dan Keterampilan Proses Sains (KPS) Siswa Pada Materi Laju Reaksi.

Penelitian bertujuan untuk: (1) Untuk menganalisis kemampuan berpikir kreatif siswa yang dibelajarkan menggunakan model pembelajaran *Project Based Learning (PjBL)* berbantuan video animasi pada materi laju reaksi. (2) Untuk mengetahui apakah terdapat korelasi antara keterampilan proses sains dan kemampuan berpikir kreatif siswa yang dibelajarkan dengan model pembelajaran *Project Based Learning (PjBL)* berbantuan video Animasi pada materi laju reaksi. Populasi pada penelitian ini adalah seluruh siswa kelas XI SMAN 10 Medan. Pemilihan sampel dilakukan dengan teknik *purposive sampling* yaitu XI IPA 3 dan XI IPA 1. Instrumen yang digunakan adalah tes *essay* kemampuan berpikir kreatif berjumlah 12 butir soal yang valid dan lembar observasi keterampilan proses sains. Uji hipotesis menggunakan uji t pihak kanan dengan hasil penelitian diperoleh nilai $t_{hitung} > t_{tabel}$ ($5,42 > 1,997$) artinya H_a diterima dan H_0 ditolak, yang berarti pengaruh penggunaan model *Project Based Learning* berbantuan video animasi terhadap kemampuan berpikir kreatif siswa lebih besar daripada penggunaan model konvensional pada materi reaksi redoks dengan nilai N-Gain pada kelas eksperimen sebesar 0,67 (67,42%) dan nilai N-Gain pada kelas kontrol sebesar 0,56 (55,76%). Kemudian pada uji korelasi antara keterampilan proses sains dengan kemampuan berpikir kreatif siswa memperoleh nilai koefisien korelasi 0,71 dengan kategori tinggi.

Kata Kunci: *Project Based Learning (PjBL)*, Berpikir Kreatif, Keterampilan Proses Sains.

ABSTRACT

Nurul Fajirah, NIM 4203331002 (2024). The Effect of Project Based Learning (PjBL) Learning Model Assisted with Animated Video On Students' Creative Thinking Abilities And Science Processing Skills In Reaction Rate Material.

The research aims to: (1) To analyze students' creative thinking abilities who are taught using the Project Based Learning (PjBL) learning model assisted by animated videos on reaction rate material. (2) To find out whether there is a correlation between science process skills and students' creative thinking abilities who are taught using the Project Based Learning (PjBL) learning model assisted by animation videos on reaction rate material. The population in this study were all class XI students of SMAN 10 Medan. Sample selection was carried out using a purposive sampling technique, namely XI IPA 3 and Hypothesis testing used the right-hand t test with the research results obtained by the value $t_{count} > t_{table}$ ($5.42 > 1.997$) meaning that H_a was accepted and H_0 was rejected, which means that the effect of using the Project Based Learning model assisted by animated videos on students' creative thinking abilities was greater than using the model. on conventional redox reaction material with an N-Gain value in the experimental class of 0.67 (67.42%) and an N-Gain value in the control class of 0.56 (55.76%). Then, in the correlation test between science process skills and creative thinking abilities, students obtained a correlation coefficient of 0.71 in the high category.

Keywords: *Project Based Learning, creative thinking abilities, science process skills.*