

ABSTRAK

Cinta Bela, NIM 4202131003 (2024). Penerapan Model *Discovery Learning* Terintegrasi Keterampilan *Generik Sains* untuk Meningkatkan Keterampilan Berpikir Tingkat Tinggi Pada Materi Keseimbangan Kimia.

Penelitian ini bertujuan untuk mengetahui peningkatan Hasil Belajar peserta didik berupa Keterampilan Berpikir Tingkat Tinggi setelah diterapkan model *Discovery Learning* terintegrasi Keterampilan *Generik Sains* pada materi Keseimbangan Kimia. Penelitian ini menggunakan desain *One Group Pretest-Posttest*. Populasi dalam penelitian ini adalah seluruh siswa kelas XI SMA Negeri 5 Tanjung Balai yang terdiri dari 4 kelas. Sampel dalam penelitian ini diambil menggunakan teknik *Random Sampling* sebanyak 1 kelas yaitu kelas XI IPA 1 yang diajarkan dengan model *Discovery Learning* terintegrasi Keterampilan *Generik Sains* dengan menggunakan instrumen tes berupa soal pretest dan posttest yang telah dilakukan uji validitas, tingkat kesukaran, daya pembeda, distruktur dan reliabilitas. Data dianalisis dengan uji *Normal Gain* dan uji *One Sample T-test*. Hasil analisis data menunjukkan bahwa penerapan model *Discovery Learning* terintegrasi Keterampilan *Generik Sains* dapat meningkatkan keterampilan berpikir tingkat tinggi dan nilai rata-rata peserta didik pada materi keseimbangan kimia mencapai minimum 75.

Kata kunci : Discovery Learning, Keterampilan Generik Sains, Keseimbangan Kimia.



ABSTRACT

Cinta Bela, NIM 4202131003 (2024). Application of the Integrated Discovery Learning Model in Generic Science Skills to Improve Higher Level Thinking Skills in Chemical Equilibrium Material.

This study aims to determine the improvement of students' Learning Outcomes in the form of High-Order Thinking Skills after the application of the Discovery Learning model integrated with Generic Science Skills on the Chemical Equilibrium material. This study uses the One Group Pretest-Posttest design. The population in this study were all students of class XI of SMA Negeri 5 Tanjung Balai consisting of 4 classes. The sample in this study was taken using the Random Sampling technique as many as 1 class, namely class XI IPA 1 which was taught with the Discovery Learning model integrated with Generic Science Skills using test instruments in the form of pretest and posttest questions that had been tested for validity, difficulty level, discriminating power, distractors and reliability. Data were analyzed using the Normal Gain test and the One Sample T-test. The results of the data analysis showed that the application of the Discovery Learning model integrated with Generic Science Skills can improve high-level thinking skills and the average score of students on the chemical equilibrium material reached a minimum of 75.

Keywords: Discovery Learning, Generic Science Skills, Chemical Equilibrium.

