

ABSTRAK

Lamramawati Sihotang, NIM 4192431010 (2023). Pengaruh Model Pembelajaran *Problem Based Learning* (PBL) Berbantuan Media *Lectora Inspire* Terhadap Kemampuan Berpikir Tingkat Tinggi dan Motivasi Belajar Siswa SMA Kelas X Pada Materi Reaksi Redoks.

Penelitian ini bertujuan untuk mengetahui pengaruh penerapan model pembelajaran *Problem Based Learning* (PBL) berbantuan media *Lectora Inspire* terhadap hasil kemampuan berpikir tingkat tinggi dan motivasi belajar siswa serta untuk mengetahui korelasi yang positif dan signifikan antara motivasi belajar dengan kemampuan berpikir tingkat tinggi siswa. Populasi penelitian ini adalah seluruh siswa kelas X IPA SMAN 15 Medan berjumlah 9 kelas. Sampel diambil secara *purposive sampling* sebanyak 2 kelas. Pada kelas eksperimen diberikan perlakuan dengan model pembelajaran PBL berbantuan *Lectora Inspire* sedangkan pada kelas kontrol menggunakan model *Direct Instruction* berbantuan *Powerpoint*. Instrumen adalah instrumen tes berupa tes pilihan ganda berjumlah 20 soal dan instrumen nontes berupa angket motivasi belajar berjumlah 30 pertanyaan. Data dianalisis dengan uji t pihak kanan dengan taraf signifikansi 0,05 dan uji korelasi. Data kemampuan berpikir tingkat tinggi dan motivasi belajar siswa dianalisis dengan uji-t setelah terlebih dahulu diuji normalitas dan homogenitas data sebagai prasyarat uji-t. Hubungan antara motivasi belajar dengan kemampuan berpikir tingkat tinggi dianalisis dengan uji korelasi. Hasil uji-t kemampuan berpikir tingkat tinggi diperoleh $t_{hitung} > t_{tabel}$ ($3,84 > 1,667$) yang menunjukkan H_0 ditolak dan H_a diterima yaitu penerapan model PBL berbantuan media *Lectora Inspire* berpengaruh terhadap kemampuan berpikir tingkat tinggi siswa. Hasil uji t motivasi belajar diperoleh $t_{hitung} > t_{tabel}$ ($2,707 > 1,667$) yang menunjukkan H_0 ditolak dan H_a diterima yaitu penerapan model PBL berbantuan media *Lectora Inspire* berpengaruh terhadap motivasi belajar siswa. Hasil uji korelasi diperoleh $r_{hitung} > r_{tabel}$ ($0,7179 > 0,329$) yang menunjukkan bahwa motivasi belajar siswa berkorelasi positif dan signifikan dengan kemampuan berpikir tingkat tinggi siswa pada penerapan model PBL berbantuan media *Lectora Inspire*.

Kata kunci: Model PBL, *Lectora Inspire*, Kemampuan Berpikir Tingkat Tinggi, Motivasi Belajar.

ABSTRACT

Lamramawati Sihotang, NIM (4192431010). The Effect of Problem Based Learning (PBL) Model Assisted by Lectora Inspire Media on Higher Order Thinking Skills and Learning Motivation of SMA Class X Students of on Redoks Material.

This study aims to determine the effect of the application of the Lectora Inspire-assisted Problem Based Learning (PBL) learning model on the results of students' higher-order thinking skills and learning motivation and to determine a positive and significant correlation between learning motivation and students' higher-order thinking abilities. The population of this study were all students of class X IPA SMAN 15 Medan totaling 9 classes. Samples were taken by purposive sampling of 2 classes. The experimental class was given treatment with the PBL learning model assisted by Lectora Inspire, while the control class used the Direct Instruction model assisted by Powerpoint. The instrument is a test instrument in the form of a multiple choice test totaling 20 questions and a non-test instrument in the form of a learning motivation questionnaire totaling 30 questions. Data were analyzed using the One Tailed Test with a significance level of 0.05 and a correlation test. Data on students' higher order thinking skills and learning motivation were analyzed by t-test after first being tested for normality and homogeneity of the data as a prerequisite for the t-test. The relationship between learning motivation and higher order thinking skills was analyzed by correlation test. The results of the t-test for higher-order thinking skills obtained $t_{count} > t_{table}$ ($3.84 > 1.667$) which shows that H_0 is rejected and H_a is accepted, namely the application of the Lectora Inspire media-assisted PBL model has an effect on students' high-order thinking abilities. The results of the t-test of learning motivation obtained $t_{count} > t_{table}$ ($2.707 > 1.667$) which shows that H_0 is rejected and H_a is accepted, namely the application of the Lectora Inspire media-assisted PBL model has an effect on student learning motivation. The results of the correlation test obtained $r_{count} > r_{table}$ ($0.7179 > 0.329$) which shows that student learning motivation is positively and significantly correlated with students' higher order thinking skills in the application of the PBL model assisted by Lectora Inspire media.

Keywords: PBL Model, Lectora Inspire, Higher Order Thinking Skills, Learning Motivation.