

ABSTRAK

Febriani, Ria. 2024. Pengaruh Model Problem-based Learning dengan Teknik *Mind Mapping* Terhadap Kemampuan Berpikir Kritis dan Kolaborasi Siswa kelas X SMAN 7 Tanjungpinang pada Materi Perubahan Lingkungan; Skripsi Tanjungpinang, Program Studi Pendidikan Biologi, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Maritim Raja Ali Haji. Pembimbing 1: Assist. Prof. Nur Eka Kusuma Hindrasti, S.Pd., M.Pd, Pembimbing 2: Assist. Prof. Adam Fernando, S. Pd., M.Pd.

Kata Kunci : Problem Based Learning, Kemampuan Berpikir Kritis, Kemampuan Kolaborasi, Perubahan Lingkungan.

Penelitian ini bertujuan untuk melihat pengaruh penerapan model Problem-based Learning dengan teknik *mind mapping* terhadap kemampuan berpikir kritis dan kolaborasi siswa pada materi perubahan lingkungan. Penelitian ini merupakan penelitian kuasi eksperimen dengan populasi seluruh siswa kelas X MIPA SMAN 7 Tanjungpinang. Teknik pengambilan sampel pada penelitian ini adalah total sampling. Instrumen yang digunakan didalam penelitian ini adalah soal tes kemampuan berpikir kritis dan lembar observasi kolaborasi. Pengujian hipotesis menggunakan Uji Independen Sample T-Test dan Uji Manova. Berdasarkan hasil uji hipotesis di ketahui: (1) terdapat pengaruh yang signifikan pada penerapan model pembelajaran Problem-based Learning dengan teknik *mind mapping* terhadap kemampuan berpikir kritis siswa (2) terdapat pengaruh yang signifikan pada penerapan model pembelajaran Problem-based Learning dengan teknik *mind mapping* terhadap kemampuan kolaborasi siswa (3) terdapat pengaruh yang signifikan pada penerapan model pembelajaran Problem-based Learning dengan teknik *mind mapping* terhadap kemampuan berpikir kritis dan kolaborasi siswa.

ABSTRACT

Febriani, Ria. 2024. The Effect of Problem-based Learning Models with Mind Mapping Techniques on Critical Thinking and Collaboration Skills of Grade X Students of SMAN 7 Tanjungpinang on Environmental Change Material; Tanjungpinang Thesis, Biology Education Study Program, Faculty of Teacher Training and Education, Raja Ali Haji Maritime University. Advisor 1: Assist. Prof. Nur Eka Kusuma Hindrasti, S.Pd., M.Pd, Advisor 2: Assist. Prof. Adam Fernando, S. Pd., M.Pd.

Keywords: Problem Based Learning, Critical Thinking Skills, Collaboration Skills, Environmental Change.

This study aimed to see the effect of the application of the Problem-based Learning model with mind mapping techniques on students' critical thinking skills and collaboration on environmental change material. This research was a quasi experimental research with a population of all students of grade X MIPA SMAN 7 Tanjungpinang. The sampling technique in this study is total sampling. The instruments used in this study were critical thinking skills test questions and collaborative observation sheets. Hypothesis testing using the Independent Samples T-Test and Manova Test. Based on the results of the hypothesis, it was known: (1) there was a significant influence on the application of the Problem-based Learning model with mind mapping techniques on students' critical thinking skills (2) there was a significant influence on the application of the Problem-based Learning model with mind mapping techniques on student collaboration abilities (3) there was a significant influence on the application of the Problem-based Learning model with mind mapping techniques on students' critical thinking and collaboration skills.