

**PERBEDAAN HASIL BELAJAR SISWA MENGGUNAKAN *PROBLEM
BASED LEARNING* (PBL) DENGAN SAINTIFIK PADA MATERI
PERUBAHAN LINGKUNGAN DI KELAS X IPA SEMESTER II
MAN 2 MODEL MEDAN T.A 2018/2019**

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui perbedaan hasil belajar siswa yang diajar menggunakan model pembelajaran *Problem Based Learning* (PBL) dan pembelajaran Saintifik pada materi Perubahan Lingkungan di Kelas X IPA Semester II MAN 2 Model Medan T.A 2018/2019. Jenis penelitian ini adalah eksperimen. Populasi yang digunakan dalam penelitian ini adalah seluruh siswa kelas X IPA MAN Model Medan T.A 2018/2019 yang terdiri dari 9 kelas dengan jumlah siswa seluruhnya sebanyak 342 orang siswa. Sampel penelitian diambil secara acak (*random sampling*) sebanyak 2 kelas yaitu X IPA 6 sebagai kelas yang diajar menggunakan model pembelajaran *Problem Based Learning* (PBL) berjumlah 38 orang siswa dan kelas X IPA 1 sebagai kelas Saintifik berjumlah 38 orang siswa, sehingga jumlah sampel dalam penelitian ini sebanyak 76 orang siswa. Instrumen yang digunakan dalam pengumpulan data berupa tes yang berbentuk soal pilihan berganda terdiri dari 30 butir soal. Dari hasil uji persyaratan analisis data, kedua kelas sampel berdistribusi normal dan memiliki varians yang seragam (homogen). Hasil penelitian menunjukkan bahwa hasil belajar siswa yang diajar menggunakan model pembelajaran *Problem Based Learning* (PBL) adalah 81,75, sedangkan hasil belajar siswa yang diajar menggunakan pembelajaran saintifik adalah 75,26. Hasil penelitian berdasarkan lembar kerja peserta didik (LKPD) pertemuan I dan pertemuan II dari kedua kelas diperoleh rata-rata lembar kerja peserta didik (LKPD) pertemuan I pada kelas *Problem Based Learning* (PBL) sebesar 86,00 dan pada kelas Saintifik sebesar 73,00, sedangkan lembar kerja peserta didik (LKPD) pertemuan II pada kelas *Problem Based Learning* (PBL) sebesar 84,00 dan pada kelas Saintifik sebesar 72,00. Hasil pengujian hipotesis menggunakan uji-t sampel mandiri pada $\alpha = 0,05$ dengan t_h sebesar 2,677; t_t sebesar 1,99254; dan db 74 dapat disimpulkan bahwa ada perbedaan hasil yang signifikan terhadap hasil belajar siswa yang diajarkan menggunakan model pembelajaran *Problem Based Learning* (PBL) dengan pembelajaran saintifik pada materi Perubahan Lingkungan di kelas X IPA Semester II MAN 2 Model Medan T.A 2018/2019.

Kata Kunci : *Pembelajaran Problem Based Learning (PBL), Pembelajaran Saintifik, Perubahan Lingkungan, Hasil Belajar.*

**THE DIFFERENCES BETWEEN STUDENTS LEARNING RESULTS
USING PROBLEM BASED LEARNING (PBL) WITH SCIENTIFIC
IN ENVIROMENTAL CHANGE MATERIALS AT
GRADE X IPA IN THE SECOND SEMESTER
MAN 2 MODEL MEDAN T.A 2018/2019**

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ABSTRACT

This study aims to determine the differences between students learning results taught using Problem Based Learning (PBL) model and Scientific learning model in the material of Environmental Change at Grade X IPA in the second Semester at MAN 2 Model Medan T.A 2018/2019. This type of research is an experiment research. The population in this study was all students of class X IPA at MAN 2 Model Medan T.A 2018/2019 consisting of 9 classes with a total number of students were 342 students. The research sample was taken randomly as much as 2 classes, namely X IPA 6 as a class consists of 38 students which taught using Problem Based Learning Learning model (PBL) and X IPA 1 as a class consists of 38 students which taught using Scientific Learning Model, so the number of samples in this study was 76 students. The instruments used in data collection in the form of tests of multiple choice questions consisted of 30 items. From the results of the data analysis, both sample classes were normally distributed and had uniform (homogeneous) variances. The results showed that the learning results of the students taught using the Problem Based Learning (PBL) learning model was 81.75, while the learning results of students taught using scientific learning were 75.26. The results of the study based on the student worksheets (LKPD) of the first meeting and the second meeting of the two classes were obtained by the average meeting participants' worksheet (LKPD). The result of Problem Based Learning (PBL) class was 86.00 and the result for Scientific class was 73, 00, while the second worksheet of students (LKPD) in the Problem Based Learning (PBL) class is 84.00 and in the Scientific class is 72.00. The results of hypothesis testing using the independent sample t-test at $\alpha = 0.05$ with t_h of 2.677; t_i of 1.99254; and db 74. It can be concluded that there are significant differences in the results of learning results of students taught using Problem Based Learning (PBL) learning models and Scientific Learning in the material of Environmental Change in class X IPA in the second Semester at MAN 2 Model Medan T.A 2018/2019.

Keywords: *Problem Based Learning (PBL), Scientific Learning, Environmental Change, Learning Results.*