

**PENGARUH MODEL PEMBELAJARAN BERBASIS MASALAH TERHADAP
KEMAMPUAN BERPIKIR TINGKAT TINGGI DAN KEAKTIFAN
SISWA PADA SUBMATERI SISTEM INDRA DI KELAS
XI MIA SMA NEGERI 14 MEDAN
T.P. 2018/2019**

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran berbasis masalah terhadap kemampuan berpikir tingkat tinggi siswa pada materi sistem indra. Populasi yang digunakan dalam penelitian ini adalah seluruh kelas XI MIA SMAN 14 Medan T.P. 2018/2019 dan sampel penelitian diambil secara acak. Penelitian ini dilakukan pada dua kelas yaitu XI MIA 3 yang diberi perlakuan dengan model pembelajaran berbasis masalah dan XI MIA 6 yang diberi perlakuan model pembelajaran konvensional. Instrumen pengumpulan data yang digunakan adalah soal esai yang berjumlah 15 soal yang telah divalidasi oleh validator. Jenis penelitian adalah *quasi eksperiment* dengan desain *two group Pre-test dan Post-test*. Berdasarkan hasil, diperoleh ada pengaruh dari model pembelajaran berbasis masalah. Hasil pretest nilai rata-rata kelas eksperimen adalah 26,96 dan nilai rata-rata kelas kontrol 24,80. Kedua sampel berdistribusi normal dan homogen. Uji hipotesis 2 pihak, $t_{hitung}=1,628$, $t_{tabel}=2,002$ ($t_{hitung} < t_{tabel}$) menyatakan kemampuan awal berpikir tingkat tinggi kedua sampel sama. Hasil *post test* nilai rata-rata kelas eksperimen 73,18 dan nilai rata-rata kelas kontrol 61,34. Uji hipotesis 1 pihak, $t_{hitung}=4,42$, $t_{tabel}=2,002$ ($t_{hitung} > t_{tabel}$). Hal ini menunjukkan adanya perbedaan kemampuan berpikir tingkat tinggi masing-masing sampel akibat pengaruh model pembelajaran berbasis masalah (*problem based learning*) pada submateri sistem indra di kelas XI semester II SMA Negeri 14 Medan T.P. 2018/2019.

Kata kunci : *Model Problem Based Learning*, Sistem indra, Kemampuan Berpikir Tingkat Tinggi.

**THE INFLUENCE OF PROBLEM BASED LEARNING MODEL ON HIGHER
ORDER THINKING SKILL AND STUDENTS' ACTIVITY IN
SENSE SYSTEM SUBMATERAL IN CLASS XI MIA
SMA NEGERI 14 MEDAN
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ABSTRACT

This study aimed to find out the influence of problem based learning model on students' higher order thinking skills of sense system. The population used in this study is all students of grade XI Science SMAN 14 MEDAN T.P. 2018/2019 and samples were taken randomly (random sampling). This study was conducted in 2 classes, namely XI Science 3 treated by using problem based learning model and grade XI Science 6 treated by using conventional learning method. The data collecting instruments of students' higher order thinking skills were essay tests that consist of 15 questions that have been validated by the validator. The type of research is quasi experiment with two group design Pre-test and Post-test. Based on the results, obtained there is the effect of problem based learning. The pretest results of the experimental class average value 26.96 and the average value of the control class 24.80. Both samples were normally distributed and homogeneous. Hypothesis test 2 parties, t count = 1.628, t table = 2.002 (t count < t table) showed that the initial higher order thinking skill both samples are the same. The posttest results of the experimental class average value 73.18 and the average value of the control class 61.34. Hypothesis test 1 party, t count = 4.42, t table = 2.002 (t count > t table). This shows the difference in high-level thinking skills of each sample due to the effect of problem based learning on the sense system submatery in the second semester of class XI Medan 14 SMA T.P. 2018/2019.

Keywords: Problem Based Learning Model, Sense System, Higher Order Thinking Skill.

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