# THE EFFECT OF PROBLEM BASED LEARNING MODEL TOWARD STUDENT'S LEARNING OUTCOME IN DYNAMIC ELECTRICITY SUBJECT MATTER AT SMA NEGERI 1 PANYABUNGAN ACADEMIC YEAR 2016/2017

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## ABSTRACT

This study aims to analyze the effect of problem based learning model toward student's learning outcome about student problem solving skills. The type of this research was quasi experimental, with experiment class used problem based learning and control class used conventional learning. The population was all of the tenth class of SMA Negeri 1 Panyabungan academic year 2016/1017 which consist of six classes. Sample was taken with a simple random sampling technique. The data in problem solving skill was collected by essay tests. Data were analyzed with t test. The pretest value in experiment class 30.87 and the posttest value 85.65 with the gain 0.7 which is included as a medium category. And in the control class had the pretest value 17.44 and the posttest value 74.28 with the gain 0.6 which is included in medium category. Hypothesis result of pretest $t_{count} < t_{table} = 1.80 < 1.99$, both of class have the same initial problem solving skills. Hypothesis result of posttest $t_{count} > t_{table} = 2.50 < 1.66$. Proved from hypothesis result in experiment class was higher than control class or there was significant difference of post test score. The result of the study showed that there was effect of problem based learning model toward student's outcome about student problem solving skill in experiment class or given by problem based learning model.

**Keyword:** Problem Based Learning Model, Student Problem Solving Skill