

**THE APPLICATION PROBLEM BASED LEARNING TO INCREASE  
STUDENTS ACTIVITIES AND ACHIEVEMENT ON SUB  
TOPIC ENVIRONMENT POLUTION IN CLASS X  
STATE SENIOR HIGH SCHOOL 1  
SUNGGAL IN ACADEMIC  
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**ABSTRACT**

This research is aimed to improve student's achievement on sub topic environment polution the student's activities and achievement by using Problem Based Learning. The study is a class activity research, started by the developing of learning instruments and oriented on the problem based learning. The subject of research is student's in the teen year class of SMA Negeri 1 Sunggal, who are in the second semester. The total number of students are 31 persons. The data was taken from the test of multiple choice and important notes in order to see the student's activity in every cycle of teaching learning process and the completeness on the implementation of the activity. The application of problem based learning can be seen from the student's activity. Improve student's activities after the application of problem based learning for two observer was 40.33%. The average of student's pretest score about sub topic environment pollution the application of problem based learning the treatment is 63.88. The average of student's posttest after the application of problem based treatment was 70.10 with the percentage of at first cycle. The student's posttest score was 81.50 with the percentage of finished study is at the second cycle. So that percentage of is make-up result learn the student was 16,17%. While complete percentage learn the student of at cycle was 51.60%, summed uply is tired student of criterion learn complete counted 16 complete percentage and people learn the student of at cycle II that was 93.53% summed uply is tired student of criterion learn complete counted 29 student.the result of research showed that using of problem based learning can improve ther activity and student's achievement that was on the subject at SMA Negeri 1 Sunggal.