

**THE IMPLEMENTATION OF PROBLEM BASED LEARNING WITH  
SCIENTIFIC APPROACH TO INCREASE THE STUDENTS'  
MATHEMATICAL CREATIVE THINKING ABILITY  
IN SMPN 37 MEDAN**

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**ABSTRACT**

The problem of this research is the low of students' mathematical creative thinking ability. This research aims to increase the students' mathematical creative thinking ability by applying problem based learning model with scientific approach. Problem is identified based on initial observation result that consisted of preliminary test and interview with one of mathematics teacher in SMPN 37 Medan. Preliminary test is done to know creative thinking ability and references to grouping students in problem based learning that will be done next. This research is Class Action Research (CAR), which is implemented in SMPN 37 Medan. The subject in this research was the students of class VIII-2 academic year 2015/2016 that have 42 students. The object of this research were the students' mathematical creative thinking ability and problem based learning model with scientific approach. The indicator of success is there are minimum 70% of the total students that followed the test get minimum score 2.51. This research consisted of 2 cycles and both cycle consisted of two meetings. Students' mathematical creative thinking ability test conducted at the end of each cycle. The result of this research could be seen: (1) The result of students' mathematical creative thinking ability test in cycle 1, completed 22 students and not completed 20 students, classical completeness is 52.4%. (2) The result of students' mathematical creative thinking ability test in cycle 2, completed 31 students and not completed 11 students, classical completeness is 73.8%. (3) Problem based learning model with scientific approach can increase the students' mathematical creative thinking ability.