

**THE APPLICATION OF CONTEXTUAL TEACHING AND LEARNING
TO IMPROVE THE ACTIVITY AND PROBLEM SOLVING
ABILITY IN SMA NEGERI 2 BALIGE**

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ABSTRACT

The aim of this research is to apply the Contextual Teaching and Learning to improve students' mathematical learning activities and problem solving ability students was conducted in SMAN 2 Balige. The type of this research was Classroom Action Research.

The subjects of this research were students of XI IA1 in A.Y 2016/2017 that have total of 34 students. The object in this research is activity student and students' mathematical problem solving ability by using Contextual Teaching and Learning in grade XI IA1 in SMA 2 Balige of A.Y 2016/2017

This research was implemented by 2 cycle. Each cycle was consist 2 meetings. Instrument used to collect the data in this research is test and observation sheet.

After given a treatment to students, in the first cycle, the average score of their mathematical problem solving was 59.21. thirteen students (38.23%) obtained score ≥ 67 . The average score of teacher's activities in observation sheet was 2.66, which classified as good category. The average score of students' activities in observation sheet was 2.55, which classified as good category. In the second cycle, the average score of mathematical problem solving ability was increased become 77.9 with 29 student (85.28%) obtained score ≥ 67 . The average score of teacher's activities in observation sheet was 3.44, which classifie as very good category. The average score of students' activities in observation sheet was 3.22, which classified as very good category.

From the results of this research can be concluded that the implementation of Contextual Teaching and Learning (CTL) approach can improve students' mathematical learning activities and student's problem solving ability. The suggestion that given for teachers is to be able to implement Contextual Teaching and Learning (CTL) approach as an alternative in the learning process that can improve problem solving ability.