

**THE DIFFERENCE OF STUDENTS' MATHEMATICS LEARNING
OUTCOMES BY USING ARCS LEARNING MODEL AND
TAI LEARNING MODEL AT SMP NEGERI 3 MEDAN**

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ABSTRACT

The aim of this research is to know whether there is no or the difference of students' mathematics learning outcomes taught by ARCS learning model and taught by TAI learning model. The research method is quasi experiment. The population is all students SMP Negeri 3 Medan. The sample of this research conduct two classes and consist of 26 students, VII_N as experimental class I taught by ARCS learning model and VII_O as experimental class II taught by TAI learning model.

The taking sample by cluster random sampling. This research using posttest only. From the result of conditional test of data, all of data from posttest are normal distribution and homogeneous. There are ten problem for posttest. All the problem are valid.

The result of the research shows that the means score are 7.88 in experiment class I and 7.04 in experiment class II. Descriptively, can see that the means score of posttest the students' mathematics learning outcomes taught by ARCS learning model higher than TAI learning model. Therefore in hypothesis using posttest data obtained that $t_{\text{calculated}} > t_{\text{table}} = 1.697 > 1.676$ with $\alpha = 0.05$ so consequently H_a is accepted. It means that the students' mathematics learning outcomes taught by Attention, Relevance, Confidence, Satisfaction learning model is better than taught by Team Assisted Individualization learning model. So mathematics teacher of SMP Negeri 3 Medan suggested can use ARCS learning model as learning model alternative in improving students' mathematics learning outcomes.