

## THE INFLUENCE OF THE PROBLEM-BASED LEARNING (PBL) MODEL ON STUDENT ACTIVITY AND LEARNING ACHIEVEMENT IN STRAIGHT LINE EQUATIONS MATERIAL FOR GRADE VIII AT SMPN 1 AIKMEL IN THE 2022/2023 ACADEMIC YEAR

This research aims to determine the effect of the problem based learning (PBL) model on student learning activities and achievement. This research was carried out at SMP Negeri 1 Aikmel for the 2022/2023 academic year. This research is a type of quantitative research with a quasi-experimental approach with a posttest only non-equivalent control group design. The population in this study were all students in class VIII of SMP Negeri 1 Aikmel for the 2022/2023 academic year. The research sample consisted of 30 students in class VIII A and 30 students in class VIII C who acted as the experimental and control classes obtained by considering the abilities of the two classes were the same or homogeneous. Collecting data on student activities and learning achievements after treatment using questionnaires and test instruments. Quantitative data analysis was carried out using the multivariate Hotteling's test, a follow-up test using the Bonferroni t test, and continued with the independent sample t-test. The three statistical tests used obtained a significance value of  $0.000 < 0.05$ , so  $H_0$  was rejected, meaning that there was a significant difference in the average value between the two groups in terms of students' activities and learning achievements both simultaneously and separately. The results of the research show that there are differences in the activities and learning achievements of students who use the PBL model and the direct learning model.

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**Session Classification:** Poster

**Track Classification:** Other