THE EFFECTIVENESS EXPERIMENTAL METHOD USING PRAKTIKUM ALTERNATIF SEDERHANA (PAS) TO INCREASE STUDENT ACHIEVEMENT AND STUDENT CHARACTER IN LEARNING COLLOID AT SENIOR HIGH SCHOOL 2 MEDAN ACADEMIC YEAR 2014/2015

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ABSTRACT

The objectives of this research are to get the comparison between experimental method using *PAS* and experiment with direct instruction to increase student's achievement, and student's character. Beside of that, this research also conducted to know the correlation between student's achievement and student's character. This research was done in SMA N 2 Medan. Population is all the students in SMA N 2 Medan which taken by purposive random sampling. The research instruments are achievement test and non test in character form. Both of instruments have been validated. The research data analyzed by SPSS -16 for windows and Microsoft Excell. The result data shows that (1) The student's achievement taught by experimental method using PAS give higher significance difference than experiment with direct instruction. It can be seen from the average of gain and also proved with t-test, the normalized gain in experimental class is (0.72±0.15) and control class (0.48±0.18) at significant level $\alpha = 0.05$, Ha is received and Ho is refused where Sig. $< \alpha$ ($0.000 < 0.05$), (2) The student's character taught by experimental method using *PAS* have increasing value in every meeting. It can be seen from the average value in student activity have average 61.11% in first meeting, 85.83% in second meeting, and 86.38% in third meeting. Then, student teamwork have average value 73.88% in first meeting, 90.55% in second meeting, and 91.11% in third meeting.

Keywords: Experimental Method Using *PAS*, Experiment, Student's Achievement, Student Character

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