IMPLEMENTATION OF LEARNING CYCLE MODEL WITH EXPERIMENTAL METHOD TO INCREASE SENIOR HIGH SCHOOL STUDENT’S ACHIEVEMENT IN TEACHING OF COLLOID

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ABSTRACT

The implementation of Learning Cycle Model with Experimental Method to increase student’s achievement is conducted to know the student’s achievement in SMA Negeri 3 Medan. The population was all the students at second level in SMA Negeri 3 Medan. The students were divided into two groups one was called experimental class in class XI IPA-6 and control class in class XI IPA-5 based on purposive sampling techniques. The kind of this research is experimental research. Instrument used is validated multiple choice questions as 20 questions and all questions is reliable. The first time, pre-test is given to experimental class and control class. In experimental class was used learning cycle model with experimental method and in control class was used conventional learning. The last, post test is given for each of class. Before hypothesis test, the data is tested by normality test by using Chi Square test and homogeneity test by using F test. Test result stated the sample is distributed normally and homogeny. Based on the result in experimental class was obtained the average of pre-test score 36.86 with standard deviation 6.65 and post test score 79.71 with standard deviation 5.68. In control class was obtained the average of pre-test score 36.57 with standard deviation 6.15 and post test score 68.71 with standard deviation 4.90. The hypothesis is tested by using z test and obtained $z_{\text{count}} = 9.151$ while $z_{\text{table}} = 1.669$ at significance level $\alpha = 0.05$ and $df = 68$ so $z_{\text{count}} > z_{\text{table}}$, so Hypothesis is received. It proved that student’s achievement taught by learning cycle model with experimental method is higher than conventional learning. Increasing of student’s achievement was calculated by using normalized gain and the percentages gain in experimental class is 67.9 % and percentages gain in control class is 50.4 %. Student’s experimental skills percentage is 90 %.

Keywords : Learning Cycle Model, Experimental Method, Student’s Experimental Skill, Student’s Achievement.