THE DEVELOPMENT OF TEACHING MATERIAL BASED ON SCIENCE LITERATION ON SALT HYDROLYSIS FOR GRADE XI SENIOR HIGH SCHOOL

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ABSTRACT

This research have the purpose to know the significant different of learning outcomes of student after teach used Module Based on Science Literation and Direct Instruction Method in topic Salt Hydrolysis. The population in this research is all of student class XI SMA N 1 Tebing Tinggi academic year 2017/2018 that have 4 class. The sample are chosen is random sampling, sample that take is XI Science 4 and XI Science 5. Every class have 36 student. The research instrument using multiple choice tests. The validation amount of question become 20 from 30 question and reliability is 0.835. The learning outcomes can we know from ability of student in answer of chemistry question in salt hydrolysis topic, after teach by using Module Based on Science Literation and using Module in The School. The result of research can shown in experimental class with average of pretest 35.97 and posttest 81.53. The average score in control class for pretest 38.71 and pretest 69.72. The normality test by statistic test using Chi Square Formula ($X^2_{calculatet} < X^2_{table}$), score of pretest and post test in experimental class is (8.88 < 11.07, 10.38 < 11.07) but in control class (6.25 < 11.07, 9.23 < 11.07) so pretest and post test is Normal Categorized. The Homogeneity test ($F_{count} < F_{table}$), the data score of Homogeneity is (1.33 < 1.77) so the data is homogeneous. From statistic test with $\alpha = 0.05$, $t_{count} > t_{table}$ or (6.1 > 1.68) Ha is accepted. The percentage of Increasing learning outcomes by using Module Based on Science Literation is 71% and learning outcomes by using Module in the School is 50%.

Keyword : *science literation, module, and learning outcomes.*