

The Development of Learning Module on the Teaching of Hydrocarbon for RSBI and SBI Students.

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Abstract

The Objective of this research is to know how the effectiveness of learning modules and it can increase the student's achievement in learning hydrocarbon topic. This research is the combination of a descriptive and experimental for teaching activities in action research Population in this research consisted of all students in SMAN RSBI in North Sumatera. Sample in this research are X grade students in SMAN 1 Medan, SMAN 1 Berastagi and SMAN 1 Tebing Tinggi. The selected sample is selected by using purposive sampling to choose two classes in every school where one is treated as experiment class and control class and every class grouped based on their achievement in pretest to make them in two categorized, the relative high achievement and low achievement. Experiment class is tough by using module while control class is still tough by book. The instrument that used is evaluation test and a set of standard questioner. The result shown the standard chemistry module have been developed in order to be used as learning media on the teaching of Hydrocarbon for SBI and RSBI students. There are good opinions from lecturer, teachers and students for module. The data are distributed normally and module can increase students learning outcomes by seeing the average result of post test 1 in high group and low group both of them shown that there is an increasing value of student's achievement from their pretest before. It could be concluded that chemistry learning module gave contribution in increasing student's achievement. The effectiveness of the chemistry learning module can seen from result of post test 2 shown that only effective in low group students. The average increase of student's achievement percentage of high group which is given chemistry module is 23.316% and for low group is 48.662%.

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