

THE EFFECTIVENESS OF LEARNING MODULE TO INCREASE STUDENT ACHIEVEMENT IN THE TEACHING OF ATOMIC STRUCTURE AND PERIODIC TABLE FOR SENIOR HIGH SCHOOL (SHS) STUDENTS GRADE X

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ABSTRACT

Chemistry learning module's effectiveness on atomic structure and periodic table topic for senior high school students grade X were investigated in this study. The study involved 120 of 10th grade students from three different schools in Medan, Deli Serdang, and Tebing Tinggi for RSBI and Internasional school standards. Which were represented by SMA N 1 Tebing Tinggi, SMA Darul Ilmi Murni and SMA Ar-Raudlatul Hasanah. For each schools was 40 students (each 20 students in experiment class and 20 students in control class).

Before identify the effectiveness of chemistry module the module was standardized by experted team consist of lecturer and teachers based on the result of textbook analysis. After that the module was trial into the 60 students in experimental class in each schools. Module's effectiveness were identify by giving a valid test developed by researcher to the students in form multiple choice test containing 20 questions. The data collected in this study were students' responses in form of students' choices from available option. The data of students' choices obtained were processed and converted into students' achievement. From the average value in experimental class is 82.00 ± 6.28 higher than in the control class is 78.67 ± 6.013 . Considering the effectiveness of chemistry learning module, it's recommended for teachers to use a chemistry learning module on the teaching of atomic structure and periodic table.