

**THE ANALYSIS OF CORRELATION BETWEEN STUDENT LEARNING
DIFFICULTIES WITH STUDENT COGNITIVE CAPABILITY IN
LEARNING CHEMISTRY OF CLASS XI HIGH SCHOOL**

ABSTRACT

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The difficulty in studying Chemistry students stem from difficulties in terms, understanding chemical concepts, and difficulties numbers. The student cognitive capability in SMAN 1 Sidikalang and SMAS Trisakti Medan . The research aimed 1) To know how the student perception about the chemistry topic 2) To identify how the cognitive capability that developed 3) To determine the correlation between learning student difficulties with student cognitive capability 4) To determine how the performance of the student teachers. The population was all of the students in grade XI at second semester academic year 2015/2016 . The class in SMAN 1 Sidikalang ,there is XI-IPA-2 and XI-IPA-7 and 1 classes in SMAS Trisakti Medan ,there is XI-IPA-1. The test used is a essay test consists of 8 questions on the efficiency of time and that the amount of matter that is representative ie 2 questions for each sub subject. Essay tests given to students is a test quoted from issues ever tested at the National Final Examination, after give the questionnaire and then observed the answer , the result will analyzed with the student cognitive. Based on result Location of difficulty predominant performed students in solving problems thermochemical subject is the difficulty in understanding the problem (29,3%). The average percentage of students who fall into the category lies the difficulty implement concepts needed is 48,04%. Factors that cause learning difficulties of students are three factor , there is Internal factors, External, The student intelligence. The student cognitive capability in SMAN 1 Sidikalang and SMAS Trisakti Medan is low.

Keyword : *student learning difficulties, learning chemistry, student cognitive capability.*

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