

**NALYZING OF STUDENTS' MISCONCEPTIONS ON ATOMIC
STRUCTURE AT SENIOR HIGH SCHOOLS IN LABUHANBATU**

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ABSTRACT

The purpose of this study was to investigate the student's misconceptions on atomic structure Senior High School in Labuhanbatu.

The population of study was taken from the senior high school in Labuhanbatu, and the sample of study amounted 177 from five different schools which represented by SMAN 1 NorthRantau (34students), SMAN 2 NorthRantau(35 students), SMAN 3 NorthRantau (32 students), SMAN 1 South Rantau (42 students), SMA SwastaKemalaBayangkara SMA (34 students), The instrument of this study was diagnostic misconception test that had examined the validity by expert in chemistry.

Description analysis was used in analyzing of the data, student's responses in atomic structure were categorized and it was revealed that students had some misconception about this subject. The majority of student's misconception in the development of atomic theory 48.13 %, the elementary particles atomic 14.68 %, the relative atomic mass 7.79 %, classify elements into isotopes, isobars, and isoton 19.77 %, the electron configuration and valence electron 48.92 %. The average of senior high school students in Labuhanbatu has misconception 34.38 %.