

3501.0950 GRADES 9-12 CHEMISTRY STANDARDS.**Subpart 1. The nature of science and engineering.**

A. Interactions among science, technology, engineering, mathematics, and society. The student will understand that developments in chemistry affect society and societal concerns affect the field of chemistry.

B. Interactions among science, technology, engineering, mathematics, and society. The student will understand that physical and mathematical models are used to describe physical systems.

Subp. 2. Physical science.

A. Matter. The student will understand that the periodic table illustrates how patterns in the physical and chemical properties of elements are related to atomic structure.

B. Matter. The student will understand that chemical and physical properties of matter result from the ability of atoms to form bonds.

C. Matter. The student will understand that chemical reactions describe a chemical change in which one or more reactants are transformed into one or more products.

D. Matter. The student will understand that states of matter can be described in terms of motion of molecules and that the properties and behavior of gases can be explained using the kinetic molecular theory.

Statutory Authority: *MS s 120B.02*

History: *34 SR 1609*

Published Electronically: *October 3, 2013*