**Chemistry**

**Periodic Table and Atomic Structure Objectives**

Students should be able to...

**\*** Know the history of the development of the periodic table.

\* Know the chemical symbols and names of the most commonly used elements

\* Know who was responsible for the most recent changes to the modern table.

\* Define: periodic law, group/family, period/series

\* Find metals, transition metals, metalloids, and nonmetals using the periodic table.

Also find atomic number, atomic mass, and diatomic elements.

\* Identify similarities in chemical behavior of elements within a group.

\* Know the direction and reasoning behind periodic trends: atomic radius,

1st ionization energy, and electronegativity

\* Predict the charge of an ion when formed from an atom(Oxidation number).

\* Be able to write Electron Configurations, Orbital Notations, and Electron Dot structures for any element.

\* Know Dalton’s atomic theory and the modern atomic theory

\* Use Atomic numbers and mass numbers to determine the number of protons, neutrons, and electrons in an atom.

\* Write the electron configuration, orbital notation, and electron dot for any atom

on the periodic table.

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