Chemical Reactivity

-Depends on:

Noble Gasses

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ reactive elements
* Have filled:

Octet Rule

-Definition:

Alkali Metals and Halogens

* Most \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ elements

-Ex. Chlorine

-Atoms try to become \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and have an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Valance Electrons

-Definition:

-Look at the periodic table

Ion

-Definition:

Cation

-Definition:

Anion

-Definition:

Characteristics of Stable Ions

-Atom and its ions have:

-Chemical properties of an atom:

-Atom and its ions nave:

-Atoms form stable ions with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Stable Ions without Noble Gas Configurations

-Ex. Transition metals form \_\_\_\_\_\_\_\_\_\_\_\_\_

Atoms and Ions

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-They still have a different number of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_