Topic 2 – The Periodic Table

Lesson 3 – Group Names and Their Properties

 



Selected Properties

Very Reactive Elements

* Group 1 Alkali Metals
* Group 2 Alkaline Earth Metals
* Fluorine

Most Reactive Metal

* Francium

Most Reactive Nonmetal

* Fluorine

Naturally Radioactive Elements

* All elements from atomic number 83 and above

Monatomic (One-atom) Elements

* Group 18 (noble gas) elements

Diatomic (Two-atom) Elements

* Fluorine
* Chlorine
* Bromine
* Iodine
* Hydrogen
* Nitrogen
* Oxygen

Element with a Double Bond

* Oxygen

Elemenet with a Triple Bond

* Nitrogen

Elements that Form Colorful Compounds

* Transition Elements (Groups 3 – 12)

Allotropes – different molecular forms of an element in the solid state

* Have different physical properties and different chemical properties and reactivity
* Oxygen allotropes – O2, O3 (ozone)
* Carbon allotropes – diamond, graphite, fullerine
* Phosphorus allotropes – black, red, white