* Elements
* 1-3 Learning Targets
* Classify elements as metal, nonmetal, of metalloid based on location on the periodic table
* Identify elements by symbol and name
* Need to know 1-30 elements, name and symbol for quiz.
* Group (families)
* Vertical column on PT
* Similar properties
* Same number of valence electrons
* 1-18
* Periodic Table
* Period
* Horizontal rows on PT
* Atomic number increases across
* Atomic weight increases across
* 7 total
* Number of energy levels
* How are elements classified?
* Grouped by similar chemical and physical properties
* 2 main groups, metals, nonmetals
* Atomic Number
* Chemical Symbol
* Chemical Name
* Atomic Mass
* **Number of neutrons:**
* **Atomic mass – Atomic# = # of neutrons**
* Metals
* Shiny
* Conduct heat
* Conduct electricity
* Form cations
* Most solid at room temp
* Malleable
* Ductile
* Left of zig-zag
* Nonmetals
* Poor conductors of heat and electricity
* Brittle
* Most are gases
* Form anions
* Low melting point
* Right of zig-zag
* Metalloids
* Semiconductor- Conduct electric current better than an insulator, but not as well as a conductor
* Some nonmetals and metals
* Sometimes considered own group
* Silicon 2nd most abound element in earths crust