**Periodic Trends Analysis**

You know what the trends of the periodic table are and how they change, now let’s dig deeper into the WHY! Go to the website (also linked on my site): <https://chem.libretexts.org/Core/Inorganic_Chemistry/Descriptive_Chemistry/Periodic_Trends_of_Elemental_Properties/Periodic_Trends>

**1. Read the section on Electronegativity.**

* Explain WHY electronegativity increases as you go across the periodic table.
* Explain WHY electronegativity decreases as you go down the periodic table
  + Why would an increase in distance from the nucleus to the electrons result in a smaller electronegativity?

Evaluate your learning: **1.** I do not understand this  **2.** I think I get it! **3**. I totally got this!

**2. Read the section on Ionization Energy.**

* Explain WHY ionization energy increases as you go across the periodic table.
* Explain WHY ionization energy decreases as you go down the periodic table.
  + What is ‘electron shielding’?

Evaluate your learning: **1.** I do not understand this  **2.** I think I get it! **3**. I totally got this!

**3. Read the section on Atomic Radius.**

* Explain WHY atomic radius decreases as you go across the periodic table.
* Explain WHY atomic radius increases as you go down the periodic table.

Evaluate your learning: **1.** I do not understand this  **2.** I think I get it! **3**. I totally got this!