**Purpose:** Create a brochure or website that answers the essential questions listed below. Be sure to review and follow the criteria for the website or brochure presentation.

**Essential Questions:**

**Ionic Bonding**

* **How is an ionic compound formed and named?**
* What is the difference between the formation of an anion and a cation?
* How do we write formulas and names to represent a binary ionic compound?

Covalent Bonding

* How is a covalent compound formed and named?
* How is the octet rule applied to atoms that bond covalently?
* How are Lewis structures used to represent covalent bonds? (single, double, triple)
* What causes some bonds to be polar?
* What are the properties of ionic, polar covalent, and nonpolar covalent compounds?

**Website and Brochure Criteria**

* Title
* Pages organized by theme with tabs or labels.
* Neat, appealing and well-designed.
* Use of graphics or illustrations to demonstrate the following *(ALL GRAPHICS must be original)* 
  + An example Lewis Structure of the formation of a binary ionic compound
  + An example Lewis Structure of the formation of a compound containing a polyatomic ion.
  + An example Lewis Structure of the following molecules. *(Be sure they are organized appropriately, i.e. single, double & triple bond examples).*
    - C2H4
    - H2O2
    - CO2
    - N2
    - NO2
    - PBr3
  + An example Lewis Structure of the polar covalent NH3
    - You may include your cartoon from this assignment as well.

**\*\*All example structures should include descriptions and labeled lone pairs.**

**Disclaimer:** There is not a source requirement for this assignment. Therefore ALL work must be original and in your own words based upon your work in class.

**Website Recommendations:** <http://www.weebly.com/> or <http://learn.googleapps.com/products/sites/get-started/#section-1>