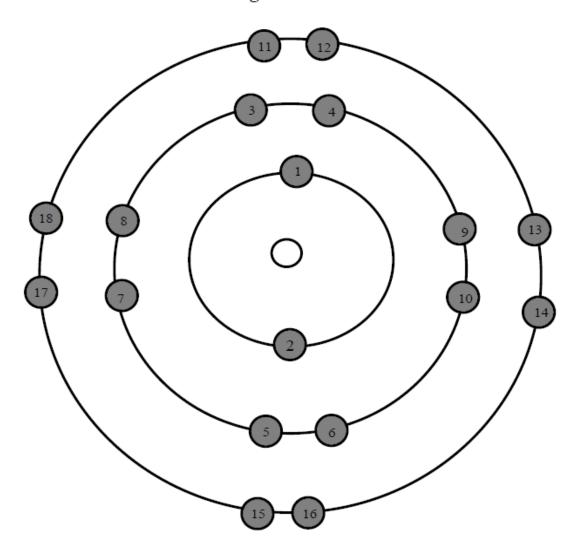
Modeling Valence Electrons



How to fill in the orbits of an atom:

- 1. First, figure out how many electrons an element has. To figure this out, look at the atomic number of that element. (The number of protons = the number of electrons)
- 2. Second, using the above picture as a guide, color in the number of electrons around the nucleus. Two electrons go in the first orbit, up to 8 electrons go in the second orbit, up to 8 electrons go in the third orbit, etc.
- 3. The inner electrons should be colored one color and the valence electrons should be colored a different color. Valence electrons are the electrons that are in the outer most orbit of that atom.

Bohr-Rutherford Diagrams Practice

For each element:

- 1. Find the element in the Periodic Table
- 2. Find the number of protons, neutrons, and electrons in each atom.
- 3. Write the element symbol in the box.
- 4. Draw the Bohr-Rutherford diagram. Color the inner electrons blue and the valence electrons red.

