

Reflection #8: CONCEPTS IN UNIT 5A: BONDING

Directions: Please rate your understanding/confidence in each of the topics below. Place the number next to the individual concepts.

- 1) I do not understand. I'm struggling
- 2) I understand somewhat. I would be able to do more practice on my own.
- 3) I fully understand. I could explain this concept to a classmate.

1. Valence Electrons

- _____ Determining the number of valence electrons in atom.
- _____ Will an atom lose or gain electrons to become stable.
- _____ Charge of an Ion

2. Coulomic Attraction

- _____ The effect of the number of energy levels(distance)has on the attraction between the nucleus and the valence electrons
- _____ The effect of the number of protons at a constant distance has on the attraction between the nucleus and the valence electrons.

3. Periodic Table Trends

- _____ Explain Electronegativity. Explain the trend going down a group and across a period.
- _____ Explain Ionization Energy. Explain the trend going down a group and across a period.
- _____ Explain the trend Atomic Radius/Size going down a group and across a period.

4. Molecular

- _____ Name → Formula
- _____ Formula →Name

5. Ionic

- _____ Name → Formula
- _____ Formula →Name
- _____ Polyatomic Ions

6. Ionic vs Covalent

- _____ Electronegativity Difference
- _____ What are the electrons doing?
- _____ Properties

7. Polar vs Nonpolar

- _____ Electronegativity Difference
- _____ Describe how the electrons are shared

8. Lewis Structure

- _____ Formula →Lewis Structure

9. Molecular Shapes

- _____ Identify the shape
- _____ Formula → Shape