

# Bonding Quiz - Study Guide

## Vocab:

- Ions
- Cation
- Anion
- Valence Shell
- Valence Electron
- Ionic Bond
- Covalent Bond
- Metals
- Non-Metals
- Metalloids
- Octet Rule

**Oxidation Numbers – These tell how many electrons an atom will either give away (+) or share/take (-). These will be provided on the quiz, know how to use them.**

- Alkali Metals: +1
- Alkaline Earth Metals: +2
- Boron Family: +3
- Carbon Family: +/- 4
- Nitrogen Family: -3
- Oxygen Family: -2
- Halogens: -1
- Noble Gases : 0

**Handouts/PPTs:** These can be found in 1<sup>st</sup> class, virtual classroom/ science/ handouts if you need another copy.

- **Atomic Bonding Handout – we color coded metals, non metals, and metalloids**
- **Ionic and Covalent Bonds Notes**
- **Counting Atoms Practice homework**
- **Counting Atoms PPT**
- **Identifying Types of Bonds homework**
- **Naming Binary Compounds homework**

\*For the quiz, a periodic table will be provided; you will not be able to use your own\*

## Do you know how to...

- determine if an element is a metal, non metal, or metalloid?
- name the bond formed between a metal and non-metal?
- name the bond formed between two nonmetals?
- differentiate between a subscript and a coefficient?
- identify an element by its symbol?
- read and write a chemical formula?
- count atoms?
- create and name a binary compound?
- identify the reactants, products, and yield sign in a chemical equation?

**Extra Credit – there will be balancing equation problems on the quiz!**