#### Chemistry - Chapter 7 Study Guide

#### Section 7.1:

- Valence electrons electrons in the outer energy level
  - responsible for bonding with other atoms
- How do you know how many valence electrons an element has?
  - Look at the group number
    - Group 1A = 1 valence electron
    - Group 7A = 7 valence electrons
    - Eac
- Electron Dot Diagrams a way of showing and keeping track of valence electrons
  - Written using the following steps:
    - Write the element symbol representing the nucleus and inner electrons
    - 2. Put one dot for each valence electrons,
    - Don't forget to add them using Hund's rule they don't pair up unless they have to.
- The Octet Rule atoms tend to want to achieve a noble gas configuration because it is the most stable. Octet = eight electrons
- Cations a positive ion (usually metals)
  - Lose electrons to attain a noble gas configuration
  - Written like Na<sup>1\*</sup>
  - No dots are shown (on an electron dot diagram) because they lose the valence electrons they had
- Anions a negative ion (usually non-metals)
  - Gain electrons to attain a noble gas configuration
  - Written like P<sup>3</sup>
  - Dots are shown because valence electrons are gained
- 8 valence electrons = stable atom (noble gases.)

#### Section 7.2:

- Anions (-) and cations (+) are held together by opposite charges; a bond is formed through the transfer of electrons to achieve a noble gas configuration (octet.)
- Ionic Compounds:
  - Also called salts.
  - Made from a cation and an anion
    - Which means they're made of a metal and a non-metal
- "if you don't understand how to do ionic bonding, check the book or ask somebody to help... it's hard to explain"
- The result of ionic bonding is an ionic compound, shown in a formula unit
  - Written like Ca<sub>3</sub>P<sub>2</sub>

# <u>Chemistry Matter And Change Chapter 7 Study Guide</u> <u>Answer Key</u>

**N Noddings** 

## **Chemistry Matter And Change Chapter 7 Study Guide Answer Key:**

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