

Assignment: Friday April 12, 2019.

Answer the following questions: Due at the end of the class hour.

1. Periodic Table of elements

- i. Which side of the periodic table has mostly metals?
- ii. Which side of the periodic table has mostly non-metals?
- iii. What is a **group** in the periodic table?
- iv. What is a **period** in the periodic table of elements?
- v. Write the names of following **Main-Group** Elements.
 - a. Group 1A
 - b. Group 2A
 - c. Group 7A
 - d. Group 8A
- vi. Identify the most reactive metal group of the periodic table of elements.
- vii. Identify the most reactive non-metal group of the periodic table of element.
- viii. Describe valence electrons.
- ix. Indicate the number of valence electrons in each of the following groups. And indicate the charge if any ions are formed. If no ions are formed write "N/A".
- x. aa

2. Chemical Bonding

- i. Describe the differences between ionic and covalent bonding.
- ii. Identify whether the following bonds in the following compounds are ionic or covalent.

Compound	KF	CH ₄	Br ₂	MgO	AlCl ₃
Bond Type					

3. Write the formula and symbol for the following

- i. Ion with 17 protons and 18 electrons.
- ii. Ion with 15 protons and 18 electrons.
- iii. Ion with 11 protons and 10 electrons.
- iv. Ion with 12 protons and 10 electrons.