



Name:

11/09/08

Assignment #19: Test Review

1. Define the following terms used in chemistry:

- a. Group
- b. Period
- c. Halogen
- d. Isotope
- e. Ion
- f. Polyatomic Ion
- g. Ternary compound
- h. Binary compound
- i. Noble Gas

2. Give at least 5 examples of covalent compounds. Include names and formulas.

3. List all of the elements that are likely to lose 2 electrons when bonding ionically.

4. List all the elements from a period on the periodic table. How many electron shells do these elements have?

5. List all the elements of a group from the periodic table. How many valence electrons do each of these have?

6. Give three examples of ionic compounds. Include names and chemical formulas.



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7. Your friend Jorge is attempting to write formulas for the following compounds, but is unsure how to do so. Explain to him the entire procedure for writing formulas for the following compounds:

- a. Triboron Heptachloride
- b. Aluminum Oxide
- c. Ammonium Sulfate

8. Give an example of a transition metal. Write its symbol, atomic number, and atomic mass.

9. You buy a new laptop. It claims to have a "Lithium Ion" battery.

- a. Draw a diagram of the most common lithium ion.

b. What question does the above diagram raise?

- c. You know that potassium has a greater reactivity than lithium, and decide to invent a "Potassium Ion" battery. Would you expect this battery to last longer or not? Why?

Why hasn't this been done already?