

1. Define each term, then use it in a sentence:

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|------------------|------------------|----------------------|-------------|
| a. anion | b. ionic bond | c. chemical change | d. element |
| e. non-metal | f. polyatomic | g. cation | h. compound |
| i. covalent bond | j. valence shell | k. electrons | l. neutrons |
| m. halogens | n. noble gases | o. diatomic molecule | p. period |

2. Be able to identify patterns, trends, & families on the Period Table.
 3. Distinguish between ionic and molecular compounds. Use at least 4 different characteristics or properties.
 4. Be able to determine chemical names, and formulas either ionic or covalent.
 5. Draw ionic compounds and molecular compounds.

6. Write the formula for the following compounds:

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|--------------------------------|-------|
| a. barium chloride | _____ |
| b. lead (IV) sulfide | _____ |
| c. silver (I) hydroxide | _____ |
| d. lithium sulfate | _____ |
| e. ammonium sulfide | _____ |
| f. carbon tetrachloride | _____ |
| g. hexaphosphorus pentacarbide | _____ |
| i. calcium carbonate | _____ |

7. Name the following compounds:

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|--|-------|
| a. FeO | _____ |
| b. Na ₂ SO ₄ | _____ |
| c. Mg(NO ₃) ₂ | _____ |
| d. Al ₂ Se ₃ | _____ |
| e. Ca ₂ C | _____ |
| f. Cu ₂ O | _____ |
| g. P ₂ O ₅ | _____ |
| h. Mg ₃ (PO ₄) ₂ | _____ |
| i. Ag ₂ SO ₄ | _____ |
| j. SF ₆ | _____ |

Review Questions in your textbook.....p.216 #2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 14,

Self Quiz.....p.218 #1 – 10, 18, 19