

NOMENCLATURE PACKET

Worksheet I: Binary Ionic Compounds (representative metals) - metals from groups 1A, 2A, and 3A (1, 2, and 13) have constant charges as ions and do NOT get Roman Numerals in their names

1. Name the following ionic compounds:

- | | |
|----------------------------|--------------------|
| a. Al_2O_3 | Aluminum oxide |
| b. Cs_2O | Cesium oxide |
| c. Rb_3N | Rubidium nitride |
| d. Ca_3N_2 | Calcium nitride |
| e. SrSe | Strontium selenide |
| f. Cs_2S | Cesium sulfide |
| g. Al_2S_3 | Aluminum sulfide |
| h. LiBr | Lithium bromide |
| i. Mg_3N_2 | Magnesium nitride |
| j. CaF_2 | Calcium fluoride |

2. Write the chemical formula for the following ionic compounds:

- | | | | |
|--------------------------------|------------------|------------------|-------------------------|
| a. Barium nitride | Ba^{+2} | N^{-3} | Ba_3N_2 |
| b. Indium Fluoride | In^{+3} | F^{-1} | InF_3 |
| c. Calcium oxide | Ca^{+2} | O^{-2} | CaO |
| d. Sodium nitride | Na^{+1} | N^{-3} | Na_3N |
| e. Magnesium chloride | Mg^{+2} | Cl^{-1} | MgCl_2 |
| f. Potassium oxide | K^{+1} | O^{-2} | K_2O |
| g. Magnesium oxide | Mg^{+2} | O^{-2} | MgO |
| h. Potassium sulfide | K^{+1} | S^{-2} | K_2S |
| i. Lithium nitride | Li^{+} | N^{-3} | Li_3N |
| j. Strontium fluoride | Sr^{+2} | F^{-1} | SrF_2 |
| k. Aluminum sulfide | Al^{+3} | S^{-2} | Al_2S_3 |
| l. Duplicate problem - removed | | | |

Naming And Writing Formulas For Ionic Compound

Chapter 9 Worksheet Answers

J Elliott



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