

Compounds Review Sheet

Use your periodic table and your notes to answer the questions.

1. Use a table like the one below to describe the difference between ionic, polyatomic and molecular compounds.

	Ionic Compounds	Polyatomic Compounds	Molecular Compounds
Difference between each type of compound			

2. Write either the formulas or the symbols for each of the following ionic compounds.

- | | |
|------------------------------|---------------------------|
| a) lithium oxide _____ | b) sodium chloride _____ |
| c) iron (II) phosphide _____ | d) copper (I) oxide _____ |
| e) magnesium bromide _____ | f) lithium iodide _____ |
| g) Rb_2O _____ | h) AuI_3 _____ |
| i) Ca_3N_2 _____ | j) SnO_2 _____ |
| k) $GaBr_3$ _____ | l) Cs_3N _____ |

3. Write either the formulas or the symbols for each of the following polyatomic compounds.

- | | |
|----------------------------|----------------------------------|
| a) sodium phosphate _____ | b) ammonium chloride _____ |
| c) calcium carbonate _____ | d) lithium nitrate _____ |
| e) cesium acetate _____ | f) platinum (II) hydroxide _____ |
| g) $BeCr_2O_7$ _____ | h) $Mg(OH)_2$ _____ |
| i) $Fe(NO_3)_3$ _____ | j) calcium sulfate _____ |
| k) $BaCO_3$ _____ | l) $Co_2(SO_4)_3$ _____ |

4. List the 10 prefixes for molecular compounds

- | | | |
|------|-----|-----|
| 1 - | 2 - | 3 - |
| 4 - | 5 - | 6 - |
| 7 - | 8 - | 9 - |
| 10 - | | |

5. Write either the formulas or the symbols for each of the following molecular compounds.

- | | |
|------------------------------------|------------------------------------|
| a) H_2O _____ | b) CO_2 _____ |
| c) CO _____ | d) P_2O_5 _____ |
| e) CF_6 _____ | f) Si_3Se_7 _____ |
| g) heptaarsenic tribromide _____ | h) diphosphorus decafluoride _____ |
| i) pentanitrogen monoxide _____ | j) nanosilicon triiodide _____ |
| j) tetrasulfur heptachloride _____ | h) octacarbon hexafluoride _____ |

6. What is the special rule when using the prefix 'mono'? Where can or can't it go?