

Name: 10/28/08

Assignment #18: Polyatomic Ions

1. Find the symbol and oxidation number for each of the following polyatomic ions:									
	a. Carbonate	b. Phosphate	c. Acetate						
	d. Phosphite	e. Hydroxide	f. Sulfate						
	g. Chlorate	g. Sulfite	h. Chlorite						
	i. Permanganate	j. Chromate	k. Permanganate						
2. An experiment calls for 13 grams of Lithium Phosphate. Your lab partner brings back a container abeled "Li ₃ P". Explain your lab partner's mistake.									
3. Name each of the following compounds and state the total number of atoms of each type.									
	a. NaCO ₃	b. KC ₂ H ₃ O ₂							
	c. NH ₄ Cl	d. MgSO ₄							
	e. CuSO ₄	f. Mg ₃ (PO ₂) ₂							





3.	Write formulas	for each	of the following	g compounds.	How many	atoms of each	type are there?

A. Lithium Hydroxide

B. Sodium Pyrophosphate

C. Calcium Carbonate

D. Ammonium Hydroxide

E. Copper (II) Hypochlorite

F. Selenium Sufite

G. Lead (II) Nitrate

H. Rubidium Acetate

I. Iron (II) Sulfate

J. Strontium Nitrate

5. Explain the difference between Copper (III) Nitrate and Copper (III) Nitride.

6. Write formulas for the following hydrated compounds:

A. Copper (II) Sulfate Pentahydrate

B. Tin (II) Chloride Dihydrate

C. Calcium Chloride Hexahydrate

D. Lithium Chloride Pentahydrate