

SECTION
3

Reinforcement

Writing Formulas and Naming Compounds

Directions: Answer the following questions in the spaces provided. Refer to the periodic table for help.

1. Define an oxidation number. _____

2. What is the usual oxidation number of oxygen? Of hydrogen? _____
3. What is the sum of all the oxidation numbers in any compound? _____
4. Explain the difference between $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$ and anhydrous cobalt chloride.

Directions: Use the periodic table in your textbook to identify the oxidation numbers of the elements in each group.

Group	1	2	16	17	18
Oxidation number	5.	6.	7.	8.	9.

Directions: Write the formulas for the following compounds. Use the periodic table in your textbook for help.

10. copper(II) sulfate _____
11. calcium chloride _____
12. iron(II) oxide _____
13. copper(I) oxide _____
14. sodium sulfide _____
15. magnesium sulfate heptahydrate _____

Directions: Complete the following table by providing the name of the compound and the total number of atoms in each formula given.

Formula	Name	Number of Atoms
16. NH_4OH		
17. NH_4C_1		
18. Ag_2O		
19. K_2SO_4		
20. $\text{Ca}(\text{NO}_3)_2$		
21. Na_2S		