

## Chapter 2 naming Compounds Combo Worksheet

**Directions:** Write the chemical formula for the following polyatomic anions

1. sulfate ion \_\_\_\_\_
2. sulfite ion \_\_\_\_\_
3. acetate ion \_\_\_\_\_
4. bicarbonate \_\_\_\_\_
5. carbonate \_\_\_\_\_
6. hydrogen sulfite ion \_\_\_\_\_
7. nitrate ion \_\_\_\_\_
8. nitrite ion \_\_\_\_\_
9. dichromate ion \_\_\_\_\_
10. oxalate ion \_\_\_\_\_
11. peroxide ion \_\_\_\_\_
12. phosphate ion \_\_\_\_\_
13. phosphite ion \_\_\_\_\_

**Directions:** Write the name of the following compounds:

14.  $\text{KMnO}_4$  \_\_\_\_\_
15.  $\text{MgSO}_4$  \_\_\_\_\_
16.  $\text{CaSO}_3$  \_\_\_\_\_
17.  $\text{H}_2\text{O}_2$  \_\_\_\_\_
18.  $\text{K}_2\text{CrO}_4$  \_\_\_\_\_
19.  $\text{Sb}(\text{HSO}_3)_5$  \_\_\_\_\_
20.  $\text{Sr}(\text{ClO})_2$  \_\_\_\_\_
21.  $\text{Fe}(\text{NO}_3)_3$  \_\_\_\_\_
22.  $\text{NiO}$  \_\_\_\_\_
23.  $\text{NaCl}$  \_\_\_\_\_
24.  $\text{Rb}_2\text{Cr}_2\text{O}_7$  \_\_\_\_\_
25.  $\text{NaHCO}_3$  \_\_\_\_\_

26.  $\text{Cu}_3(\text{PO}_4)_2$  \_\_\_\_\_

**Directions:** Write the chemical formula for each of the following:

27. magnesium acetate \_\_\_\_\_

28. sodium bisulfite \_\_\_\_\_

29. potassium hypochlorite \_\_\_\_\_

30. nitrogen dioxide \_\_\_\_\_

31. carbon tetrachloride \_\_\_\_\_

32. lead (IV) chlorite \_\_\_\_\_

33. sodium fluoride \_\_\_\_\_

34. barium bromide \_\_\_\_\_

**Directions:** Name the following acids

35.  $\text{H}_2\text{SO}_4$  \_\_\_\_\_

36.  $\text{H}_2\text{SO}_3$  \_\_\_\_\_

37. HCN \_\_\_\_\_

38.  $\text{H}_2\text{S}$  \_\_\_\_\_

39.  $\text{H}_3\text{PO}_4$  \_\_\_\_\_

**Directions:** Write the formulas for the following acids.

40. chloric acid \_\_\_\_\_

41. perchloric acid \_\_\_\_\_

42. hydrobromic acid \_\_\_\_\_

43. hydroiodic acid \_\_\_\_\_

44. carbonic acid \_\_\_\_\_

