Even More Practice Writing Names and Formulas for Chemical Compounds

Part 1: Simple Binary Compounds

Give the formulas for the following binary compounds.

1. sodium fluoride
2. lithium sulfide
3. calcium bromide
4. strontium iodide
5. potassium oxide
6. magnesium nitride
7. silver iodide
8. cadmium selenide
9. aluminum sulfide
10. lithium bromide
11. sodium oxide
12. barium sulfide
13. aluminum nitride
14. beryllium oxide
15. zinc phosphide
16. potassium chloride
17. sulfur trioxide
18. phosphorus pentachloride
19. dinitrogen tetroxide
20. silicon dioxide

Write the names for the following binary compounds.

1. 1. BeF2
2. 2. NaI
3. 3. AlBr3
4. 4. Ra3N2
5. 5. K2S
6. 6. SrO
7. 7. BaCl2
8. 8. Li2O
9. 9. Na2S
10. 10. Ag2Se
11. 11. CO2
12. 12. Cl2O7
13. 13. Zn3P2
14. 14. N2O5
15. 15. ICl3

Part 2: Compounds with Polyatomic Ions

Write the correct formulas for each of these compounds.

1. sodium sulfite
2. aluminum phosphate
3. potassium bicarbonate (or potassium hydrogen carbonate)
4. beryllium sulfate
5. lithium carbonate
6. ammonium fluoride
7. sodium nitrate
8. potassium peroxide
9. calcium dichromate
10. magnesium sulfite
11. magnesium hyposulfite
12. strontium sulfate
13. aluminum hydroxide
14. lithium phosphate
15. sodium nitrite
16. calcium acetate
17. ammonium phosphate
18. barium cyanide
19. calcium bromite
20. cadmium hypochlorite

Write the correct names for each of the following compounds.

1. NH4Cl
2. Na2SO4
3. KNO3
4. NaC2H3O2
5. Mg(OH)2
6. Al(NO2)3
7. CaSO4
8. (NH4)2CO3
9. Rb2Cr2O7
10. NaClO4
11. H2O2
12. CaSO3
13. Zn(C2H3O2)2
14. K2CrO4
15. Ca3(PO4)2

Part 3: Compounds with Type II Cations

Write formulas for the following compounds containing Type II (variable charge) cations.

1. iron (II) chloride
2. iron (III) chloride
3. chromium (III) oxide
4. mercury (II) sulfide
5. lead (IV) chlorate
6. cobalt (II) chlorite
7. chromium (VI) cyanide
8. tin (II) hydroxide
9. iron (III) dichromate
10. nickel (III) acetate

Write the names for the following compounds.

1. NiF2
2. NiF3
3. Cu(ClO)2
4. Pb(C2H3O2)4
5. Fe2S3
6. CrO
7. Hg2Cl2
8. Mn(SO4)2
9. Cr(SO2)3
10. CoCr2O7

# Answers to Writing Names and Formulas Part 1.

1. NaF
2. Li2S
3. CaBr2
4. SrI2
5. K2O
6. Mg3N2
7. AgI
8. CdSe
9. Al2S3
10. LiBr
11. Na2O
12. BaS
13. AlN
14. BeO
15. Zn3P2
16. KCl
17. SO3
18. PCl5
19. N2O4
20. SiO2
21. beryllium fluoride
22. sodium iodide
23. aluminum bromide
24. radium nitride
25. potassium sulfide
26. strontium oxide
27. barium chloride
28. lithium oxide
29. sodium sulfide
30. silver selenide
31. carbon dioxide
32. dichlorine heptoxide
33. zinc phosphide
34. dinitrogen pentoxide
35. iodine trichloride

# Answers to Writing Names and Formulas Part 2

1. Na2SO3
2. AlPO4
3. KHCO3
4. BeSO4
5. Li2CO3
6. NH4F
7. NaNO3
8. K2O2
9. CaCr2O7
10. MgSO3
11. MgSO2
12. SrSO4
13. Al(OH)3
14. Li3PO4
15. NaNO2
16. Ca(C2H3O2)2
17. (NH4)3PO4
18. Ba(CN)2
19. Ca(BrO2)2
20. Cd(ClO)2
21. ammonium chloride
22. sodium sulfate
23. potassium nitrate
24. sodium acetate
25. magnesium hydroxide
26. aluminum nitrite
27. calcium sulfate
28. ammonium carbonate
29. rubidium dichromate
30. sodium perchlorate
31. hydrogen peroxide
32. calcium sulfite
33. zinc acetate
34. potassium chromate
35. calcium phosphate

# Answers to Writing Names and Formulas Part 3

1. FeCl2
2. FeCl3
3. Cr2O3
4. HgS
5. Pb(ClO3)4
6. Co(ClO2)2
7. Cr(CN)6
8. Sn(OH)2
9. Fe2(Cr2O7)3
10. Ni(C2H3O2)3
11. nickel (II) fluoride
12. nickel (III) fluoride
13. copper (II) hypochlorite
14. lead (IV) acetate
15. iron (III) sulfide
16. chromium (II) oxide
17. mercury (I) chloride
18. manganese (IV) sulfate
19. chromium (VI) hyposulfite
20. cobalt (II) dichromate