

# Ionic Formula Writing/Naming Worksheet

Name: Key

Write the chemical formula and the name for the following combinations of metals/non-metals:

1. Sodium and sulfur	$\text{Na}_2\text{S}$	Sodium sulfide
2. Lithium and oxygen	$\text{Li}_2\text{O}$	Lithium oxide
3. Potassium and fluorine	$\text{KF}$	Potassium fluoride
4. Rubidium and sulfur	$\text{Rb}_2\text{S}$	Rubidium sulfide
5. Magnesium and oxygen	$\text{MgO}$	Magnesium oxide
6. Calcium and sulfur	$\text{CaS}$	Calcium sulfide
7. Strontium and fluorine	$\text{SrF}_2$	Strontium fluoride
8. Barium and chlorine	$\text{BaCl}_2$	Barium chloride
9. Magnesium and bromine	$\text{MgBr}_2$	Magnesium bromide
10. Calcium and iodine	$\text{CaI}_2$	Calcium iodide
11. Aluminum and oxygen	$\text{Al}_2\text{O}_3$	Aluminum oxide
12. Barium and chlorine	$\text{BaCl}_2$	Barium chloride
13. Cesium and oxygen	$\text{Cs}_2\text{O}$	Cesium oxide
14. Aluminum and iodine	$\text{AlI}_3$	Aluminum iodide
15. Silver and chlorine	$\text{AgCl}$	Silver chloride
16. Copper(II) & iodine	$\text{CuI}_2$	Copper (II) iodide
17. Mercury(I) & sulfur	$\text{Hg}_2\text{S}$	Mercury (I) sulfide
18. Manganese(IV) & oxygen	$\text{MnO}_2$	Manganese (IV) oxide
19. Mercury(II) & chlorine	$\text{HgCl}_2$	Mercury (II) chloride
20. Zinc and fluorine	$\text{ZnF}_2$	Zinc fluoride
21. Chromium(II) & oxygen	$\text{CrO}$	Chromium (II) oxide
22. Calcium and sulfur	$\text{CaS}$	Calcium sulfide
23. Iron(III) and iodine	$\text{FeI}_3$	Iron (III) iodide
24. Iron(III) and oxygen	$\text{Fe}_2\text{O}_3$	Iron (III) oxide
25. Copper(II) & chlorine	$\text{CuCl}_2$	Copper (II) chloride
26. Nickel(III) & fluorine	$\text{NiF}_3$	Nickel (III) fluoride
27. Manganese(IV) & sulfur	$\text{MnS}_2$	Manganese (IV) sulfide
28. Lead(II) and iodine	$\text{PbI}_2$	Lead (II) iodide
29. Lead(IV) and oxygen	$\text{PbO}_2$	Lead (IV) oxide
30. Chromium(III) & oxygen	$\text{Cr}_2\text{O}_3$	Chromium (III) oxide
31. Nickel(III) and sulfur	$\text{Ni}_2\text{S}_3$	Nickel (III) sulfide
32. Tin(II) and bromine	$\text{SnBr}_2$	Tin (II) bromide
33. Titanium(III) & oxygen	$\text{Ti}_2\text{O}_3$	Titanium (III) oxide
34. Lithium and nitrate	$\text{LiNO}_3$	Lithium nitrate
35. Potassium and sulfate	$\text{K}_2\text{SO}_4$	Potassium sulfate
36. Barium and hydroxide	$\text{Ba(OH)}_2$	Barium hydroxide
37. Aluminum and cyanide	$\text{Al(CN)}_3$	Aluminum cyanide
38. Calcium and carbonate	$\text{CaCO}_3$	Calcium carbonate
39. Strontium and phosphate	$\text{Sr}_3(\text{PO}_4)_2$	Strontium phosphate
40. Sodium and bicarbonate	$\text{NaHCO}_3$	Sodium bicarbonate

41. Beryllium and oxalate  $\text{Be}_2\text{C}_2\text{O}_4$
42. Rubidium and phosphate  $\text{Rb}_2\text{PO}_4$
43. Magnesium and bisulfate  $\text{Mg}(\text{HSO}_4)_2$
44. Ammonium and chlorine  $\text{NH}_4\text{Cl}$
45. Ammonium and sulfur  $(\text{NH}_4)_2\text{S}$
46. Potassium and hydroxide  $\text{KOH}$
47. Iron(III) and sulfate  $\text{Fe}_2(\text{SO}_4)_3$
48. Copper(II) and hydroxide  $\text{Cu}(\text{OH})_2$
49. Chromium(III) & phosphate  $\text{CrPO}_4$
50. Nickel(II) and nitrate  $\text{Ni}(\text{NO}_3)_2$
51. Lead(IV) and carbonate  $\text{Pb}(\text{CO}_3)_2$
52. Tin(II) and oxalate  $\text{SnC}_2\text{O}_4$
53. Zinc and sulfate  $\text{ZnSO}_4$
54. Mercury(II) & hydroxide  $\text{Hg}(\text{OH})_2$
55. Nickel(III) & bicarbonate  $\text{Ni}(\text{HCO}_3)_3$
56. Titanium(III) & chromate  $\text{Ti}_2(\text{CrO}_4)_3$
57. Copper(I) and carbonate  $\text{Cu}_2\text{CO}_3$
58. Silver and acetate  $\text{AgCH}_3\text{COO}$
59. Aluminum & carbonate  $\text{Al}_2(\text{CO}_3)_3$
60. Iron(II) and nitrate  $\text{Fe}(\text{NO}_3)_2$
61. Zinc and acetate  $\text{Zn}(\text{CH}_3\text{COO})_2$
62. Ammonium & thiocyanate  $\text{NH}_4\text{SCN}$
63. Iron(III) and oxalate  $\text{Fe}_2(\text{C}_2\text{O}_4)_3$
64. Copper(II) and acetate  $\text{Cu}(\text{CH}_3\text{COO})_2$

- Beryllium oxalate
- Rubidium phosphate
- Magnesium bisulfate
- Ammonium chloride
- Ammonium sulfide
- Potassium hydroxide
- Iron (III) sulfate
- Copper (II) hydroxide
- Chromium (III) phosphate
- Nickel (II) nitrate
- Lead (IV) carbonate
- Tin (II) oxalate
- Zinc sulfate
- Mercury (II) hydroxide
- Nickel (III) bicarbonate
- Titanium (III) chromate
- Copper (I) carbonate
- Silver acetate
- Aluminum carbonate
- Iron (II) nitrate
- Zinc acetate
- Ammonium thiocyanate
- Iron (III) oxalate
- Copper (II) acetate