

Data Table

 Teacher's Notes *continued*

Combining Ions	Number of cations	Number of anions	Total + charge	Total - charge	Formula	Name of compound
1. Aluminum & Chloride Al^{3+} and Cl^{-}	1	3	+3	-3	$AlCl_3$	Aluminum chloride
2. Sodium & Oxide Na^{+} and O^{2-}	2	1	+2	-2	Na_2O	Sodium oxide
3. Iron(II) & Sulfide Fe^{2+} and S^{2-}	1	1	+2	-2	FeS	Iron(II) sulfide
4. Potassium & Sulfate K^{+} and SO_4^{2-}	2	1	+2	-2	K_2SO_4	Potassium sulfate
5. Silver & Nitrate Ag^{+} and NO_3^{-}	1	1	+1	-1	$AgNO_3$	Silver nitrate
6. Copper(II) & Hydroxide Cu^{2+} and OH^{-}	1	2	+2	-2	$Cu(OH)_2$	Copper(II) hydroxide
7. Ammonium & Carbonate NH_4^{+} and CO_3^{2-}	2	1	+2	-2	$(NH_4)_2CO_3$	Ammonium carbonate
8. Copper(I) & Phosphate Cu^{+} and PO_4^{3-}	3	1	+3	-3	Cu_3PO_4	Copper(I) phosphate
9. Magnesium & Bromide Mg^{2+} and Br^{-}	1	2	+2	-2	$MgBr_2$	Magnesium bromide
10. Calcium & Acetate Ca^{2+} and $C_2H_3O_2^{-}$	1	2	+2	-2	$Ca(C_2H_3O_2)_2$	Calcium acetate

Data Table *continued*

Combining Ions	Number of cations	Number of anions	Total + charge	Total - charge	Formula	Name of compound
11. Iron(III) & Oxide Fe^{3+} and O^{2-}	2	3	+6	-6	Fe_2O_3	Iron(III) oxide
12. Copper(I) & Chromate Cu^+ and CrO_4^{2-}	2	1	+2	-2	Cu_2CrO_4	Copper(I) chromate
13. Sodium & Bicarbonate Na^+ and HCO_3^-	1	1	+1	-1	NaHCO_3	Sodium bicarbonate
14. Magnesium & Phosphate Mg^{2+} and PO_4^{3-}	3	2	+6	-6	$\text{Mg}_3(\text{PO}_4)_2$	Magnesium phosphate
15. Potassium & Cyanide K^+ and CN^-	1	1	+1	-1	KCN	Potassium cyanide
16. Aluminum & Sulfide Al^{3+} and S^{2-}	2	3	+6	-6	Al_2S_3	Aluminum sulfide
17.						
18.						
19.						
20.						