

Name _____ Formula Writing Sheet #1

Name of Compound	Positive ion	Negative ion	Formula
1. Sodium Iodide	Na^+	I^-	NaI
2. Silver sulfide	Ag^+	S^{2-}	Ag_2S
3. Barium sulfate	Ba^{2+}	SO_4^{2-}	BaSO_4
4. Lithium sulfide	Li	S^{2-}	Li_2S
5. Sodium hydroxide	Na^+	OH^-	NaOH
6. Ammonium chlorate	Al^{3+}	ClO_3^-	$\text{Al}(\text{ClO}_3)_3$
7. Zinc sulfate	Zn^{2+}	SO_4^{2-}	ZnSO_4
8. Iron(III) phosphate	Fe^{3+}	PO_4^{3-}	FePO_4
9. Nickel (II) hydroxide	Ni^{2+}	OH^-	$\text{Ni}(\text{OH})_2$
10. Chromium (III) oxide	Cr^{3+}	O^{2-}	Cr_2O_3
11. Iron (III) sulfate	Fe^{3+}	SO_4^{2-}	$\text{Fe}_2(\text{SO}_4)_3$
12. Copper (II) nitrate	Cu^{2+}	NO_3^-	$\text{Cu}(\text{NO}_3)_2$
13. copper (II) carbonate	Cu^{2+}	CO_3^{2-}	CuCO_3
14. magnesium phosphide	Mg^{2+}	P^{3-}	Mg_3P_2
15. aluminum nitrate	Al^{3+}	NO_3^-	$\text{Al}(\text{NO}_3)_3$
16. sodium phosphate	Na^+	PO_4^{3-}	Na_3PO_4
17. aluminum sulfate	Al^{3+}	SO_4^{2-}	$\text{Al}_2(\text{SO}_4)_3$
18. aluminum sulfide	Al^{3+}	S^{2-}	Al_2S_3
19. iron (III) sulfite	Fe^{3+}	SO_3^{2-}	$\text{Fe}_2(\text{SO}_3)_3$
20. ammonium carbonate	NH_4^+	CO_3^{2-}	$(\text{NH}_4)_2\text{CO}_3$

Name _____

Formula Writing I

Complete the chart.

Compound made of	Cation (metal)	Anion (non-metal)	Formula
1. hydrogen and sulfur	H^+	S^{2-}	H_2S
2. calcium and chlorine	Ca^{2+}	Cl^-	$CaCl_2$
3. sodium and phosphorus	Na^+	P^{3-}	Na_3P
4. aluminum and sulfur	Al^{3+}	S^{2-}	Al_2S_3
5. magnesium and oxygen	Mg^{2+}	O^{2-}	MgO
6. aluminum and chlorine	Al^{3+}	Cl^-	$AlCl_3$
7. magnesium and fluorine	Mg^{2+}	F^-	MgF_2
8. sodium and sulfur	Na^+	S^{2-}	Na_2S
9. hydrogen and oxygen	H^+	O^{2-}	H_2O
10. aluminum and oxygen	Al^{3+}	O^{2-}	Al_2O_3
11. calcium and phosphorus	Ca^{2+}	P^{3-}	Ca_3P_2
12. calcium and oxygen	Ca^{2+}	O^{2-}	CaO

Name _____

Formula Writing II

Compound made of	Positive ion	Negative ion	Formula
1. Magnesium and hydroxide	Mg^{2+}	OH^{-}	$Mg(OH)_2$
2. potassium and sulfate	K^{+}	SO_4^{2-}	K_2SO_4
3. calcium and nitrate	Ca^{2+}	NO_3^{-}	$Ca(NO_3)_2$
4. aluminum and phosphate	Al^{3+}	PO_4^{3-}	$AlPO_4$
5. ammonium and chlorine	NH_4^{+}	Cl^{-}	NH_4Cl
6. Ammonium and sulfur	NH_4^{+}	S^{2-}	$(NH_4)_2S$
7. aluminum and carbonate	Al^{3+}	CO_3^{2-}	$Al_2(CO_3)_2$
8. calcium and carbonate	Ca^{2+}	CO_3^{2-}	$CaCO_3$
9. hydrogen and carbonate	H^{+}	CO_3^{2-}	H_2CO_3
10. ammonium and hydroxide	NH_4^{+}	OH^{-}	NH_4OH
11. sodium and carbonate	Na^{+}	CO_3^{2-}	Na_2CO_3
12. ammonium and fluorine	NH_4^{+}	F^{-}	NH_4F