

FORMULAS WITH POLYATOMIC IONS

Name _____

Matching the horizontal and vertical axes, write the formulas of the compounds with the following combination of ions. The first one is done for you.

	OH^-	NO_3^-	CO_3^{-2}	SO_4^{-2}	PO_4^{-3}
H^+	HOH (H_2O)	HNO_3	H_2CO_3	H_2SO_4	H_3PO_4
Na^+					
Mg^{+2}					
NH_4^+					
Ca^{+2}					
K^+					
Al^{+3}					
Pb^{+4}					

NAMING OF NON-BINARY COMPOUNDS

Name _____

An ionic compound that contains more than two elements must contain a polyatomic ion. Name the following compounds.

1. NaNO_3 _____

2. Ca(OH)_2 _____

3. K_2CO_3 _____

4. NH_4Cl _____

5. MgSO_4 _____

6. AlPO_4 _____

7. $(\text{NH}_4)_2\text{SO}_4$ _____

8. Na_3PO_4 _____

9. CuSO_4 _____

10. NH_4OH _____

11. Li_2SO_3 _____

12. $\text{Mg(NO}_3)_2$ _____

13. Al(OH)_3 _____

14. $(\text{NH}_4)_3\text{PO}_4$ _____

15. KOH _____

16. $\text{Ca(NO}_3)_2$ _____

17. K_2SO_4 _____

18. Pb(OH)_2 _____

19. Na_2O_2 _____

20. CuCO_3 _____