

Name _____

H. Chem, Period _____

Acid Nomenclature WS

Binary acids (When the anion does NOT contain oxygen):

Ternary acids (When the anion contains oxygen):

Write the formula for each of the acids listed below:

| | |
|----------------------|--|
| 1. Nitric acid | |
| 2. Acetic acid | |
| 3. Hydrobromic acid | |
| 4. Sulfurous acid | |
| 5. Chlorous acid | |
| 6. Hydrochloric acid | |
| 7. Phosphoric acid | |
| 8. Nitrous acid | |
| 9. Hydrofluoric acid | |
| 10. Perchloric acid | |
| 11. Hydroiodic acid | |
| 12. Sulfuric acid | |

Name each of the following acids:

| | |
|--|--|
| 13. $\text{HClO}_{4(\text{aq})}$ | |
| 14. $\text{H}_3\text{PO}_{4(\text{aq})}$ | |
| 15. $\text{H}_2\text{S}_{(\text{aq})}$ | |
| 16. $\text{HNO}_{2(\text{aq})}$ | |
| 17. $\text{HCN}_{(\text{aq})}$ | |
| 18. $\text{HC}_2\text{H}_3\text{O}_{2(\text{aq})}$ | |
| 19. $\text{HClO}_{3(\text{aq})}$ | |
| 20. $\text{H}_2\text{CO}_{3(\text{aq})}$ | |

Note the (aq) symbol...we only name these substances as acids when dissolved in water! As pure substances, they are gases and we name them as ionic compounds.