

**Worksheet: Chemical Key**  
**Identification (Naming Compounds)**

Name: \_\_\_\_\_

Write the name for each of the following compounds:

- |                                 |                     |                             |                     |
|---------------------------------|---------------------|-----------------------------|---------------------|
| 1. $\text{CaCO}_3$              | calcium carbonate   | 11. $\text{NaCl}$           | sodium chloride     |
| 2. $\text{FeO}$                 | iron(II)oxide       | 12. $\text{Fe(OH)}_2$       | iron(II)hydroxide   |
| 3. $\text{K}_2\text{CO}_3$      | potassium carbonate | 13. $\text{CuCl}_2$         | copper(II)chloride  |
| 4. $\text{AgCl}$                | silver chloride     | 14. $\text{AlCl}_3$         | aluminum chloride   |
| 5. $\text{Ca}_3(\text{PO}_4)_2$ | calcium phosphate   | 15. $\text{H}_2\text{CO}_3$ | carbonic acid       |
| 6. $\text{NaOH}$                | sodium hydroxide    | 16. $\text{PbCl}_2$         | lead(II)chloride    |
| 7. $\text{H}_2\text{S}$         | hydrogen sulfide    | 17. $\text{KNO}_3$          | potassium nitrate   |
| 8. $\text{FeCl}_3$              | iron(III)chloride   | 18. $\text{Mg(OH)}_2$       | magnesium hydroxide |
| 9. $\text{Na}_2\text{CO}_3$     | sodium carbonate    | 19. $\text{LiClO}_4$        | lithium perchlorate |
| 10. $\text{NH}_4\text{NO}_3$    | ammonium nitrate    | 20. $\text{HCl}$            | hydrochloric acid   |

Write the chemical formula for each of the following compounds:

- |                        |                         |                         |                               |
|------------------------|-------------------------|-------------------------|-------------------------------|
| 21. sodium nitrate     | $\text{NaNO}_3$         | 31. potassium carbonate | $\text{K}_2\text{CO}_3$       |
| 22. iron(III)oxide     | $\text{Fe}_2\text{O}_3$ | 32. silver chloride     | $\text{AgCl}$                 |
| 23. aluminum hydroxide | $\text{Al(OH)}_3$       | 33. nickel(II)acetate   | $\text{Ni(CH}_3\text{COO)}_2$ |
| 24. ammonium hydroxide | $\text{NH}_4\text{OH}$  | 34. calcium phosphate   | $\text{Ca}_3(\text{PO}_4)_2$  |
| 25. magnesium chloride | $\text{MgCl}_2$         | 35. copper(II)nitrate   | $\text{Cu(NO}_3)_2$           |
| 26. calcium chloride   | $\text{CaCl}_2$         | 36. magnesium oxide     | $\text{MgO}$                  |
| 27. copper(II)oxide    | $\text{CuO}$            | 37. aluminum oxide      | $\text{Al}_2\text{O}_3$       |
| 28. potassium sulfate  | $\text{K}_2\text{SO}_4$ | 38. sodium nitrate      | $\text{NaNO}_3$               |
| 29. zinc oxide         | $\text{ZnO}$            | 39. lead(II)oxide       | $\text{PbO}$                  |
| 30. barium sulfate     | $\text{BaSO}_4$         | 40. tin(II)acetate      | $\text{Sn(CH}_3\text{COO)}_2$ |