

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

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

Write the name for each of the following compounds:

- |                                 |                     |                                |                      |
|---------------------------------|---------------------|--------------------------------|----------------------|
| 1. $\text{CaCO}_3$              | calcium carbonate   | 11. $\text{NaClO}_2$           | sodium chlorite      |
| 2. $\text{FeCl}_2$              | iron(II) chloride   | 12. $\text{Fe}(\text{NO}_3)_2$ | iron nitrate         |
| 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 hydrosulfic |
| 6. $\text{NaOH}$                | sodium hydroxide    | 16. $\text{PbCl}_2$            | lead(II) chloride    |
| 7. $\text{H}_2\text{S}$         | sulfur sulfide      | 17. $\text{KNO}_3$             | potassium nitrate    |
| 8. $\text{FeCl}_3$              | iron(III) chloride  | 18. $\text{Mg}(\text{OH})_2$   | magnesium hydroxide  |
| 9. $\text{Cl}_2$                | chlorine chloride   | 19. $\text{LiClO}_2$           | lithium chlorite     |
| 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 sulfide      | $\text{Ag}_2\text{S}$        |
| 23. aluminum hydroxide     | $\text{Al}(\text{OH})_3$ | 33. nickel(II) sulfide  | $\text{NiS}$                 |
| 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  | $\text{Cu}(\text{NO}_3)_2$   |
| 26. calcium chloride       | $\text{CaCl}_2$          | 36. magnesium sulfide   | $\text{MgS}$                 |
| 27. copper(II) oxide       | $\text{CuO}$             | 37. aluminum oxide      | $\text{Al}_2\text{O}_3$      |
| 28. potassium permanganate | $\text{KMnO}_4$          | 38. sodium nitrate      | $\text{NaNO}_3$              |
| 29. zinc oxide             | $\text{ZnO}$             | 39. lead(II) sulfide    | $\text{PbS}$                 |
| 30. barium sulfate         | $\text{BaSO}_4$          | 40. tin(II) carbonate   | $\text{SnCO}_3$              |