

Worksheet: Chemical Key
Identification (Naming Compounds)

Name: _____

Write the name for each of the following compounds:

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|---------------------------------|---------------------|--------------------------------|-----------------------|
| 1. CaCO_3 | calcium carbonate | 11. NaClO_2 | sodium chlorite |
| 2. FeCl_2 | iron(II) chloride | 12. $\text{Fe}(\text{NO}_3)_2$ | iron nitrate |
| 3. K_2CO_3 | potassium carbonate | 13. Cu_2CO_3 | copper (II) carbonate |
| 4. AgCl | silver chloride | 14. AlCl_3 | aluminum chloride |
| 5. $\text{Ca}_3(\text{PO}_4)_2$ | calcium phosphate | 15. H_2CO_3 | carbonic hydrosulfic |
| 6. NaOH | sodium hydroxide | 16. PbCl_2 | lead (II) chloride |
| 7. H_2S | sulfur sulfide | 17. KNO_3 | potassium nitrate |
| 8. FeCl_3 | iron (III) chloride | 18. $\text{Mg}(\text{OH})_2$ | magnesium hydroxide |
| 9. Cl_2 | chlorine chloride | 19. Li_2CO_3 | lithium carbonate |
| 10. NH_4NO_3 | ammonium nitrate | 20. HCl | hydrochloric acid |

Write the chemical formula for each of the following compounds:

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|----------------------------|--------------------------|---------------------------|------------------------------|
| 21. sodium nitrate | NaNO_3 | 31. potassium carbonate | K_2CO_3 |
| 22. iron(III) oxide | Fe_2O_3 | 32. silver sulfide | Ag_2S |
| 23. aluminum hydroxide | $\text{Al}(\text{OH})_3$ | 33. nickel (II) carbonate | NiCO_3 |
| 24. ammonium hydroxide | NH_4OH | 34. calcium phosphate | $\text{Ca}_3(\text{PO}_4)_2$ |
| 25. magnesium chloride | MgCl_2 | 35. copper (II) nitrate | $\text{Cu}(\text{NO}_3)_2$ |
| 26. calcium chloride | CaCl_2 | 36. magnesium sulfide | MgS |
| 27. copper(II) oxide | CuO | 37. aluminum oxide | Al_2O_3 |
| 28. potassium permanganate | KMnO_4 | 38. sodium nitrate | NaNO_3 |
| 29. zinc oxide | ZnO | 39. lead(II) sulfide | PbS |
| 30. barium sulfate | BaSO_4 | 40. tin (II) carbonate | SnCO_3 |