

Mixed Nomenclature Worksheet

Identify each compound as Ionic or Covalent

Write the appropriate chemical name for the compounds:

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|---------------------------------|-----------------------------|----------------------------------|--------------------------------|
| 1. NaCl | sodium chloride | 12. $\text{Pb}_3(\text{PO}_4)_2$ | lead (II) phosphate |
| 2. KBr | potassium bromide | 13. P_2O_5 | diphosphorous pentoxide |
| 3. CaF_2 | calcium fluoride | 14. $\text{Ca}(\text{ClO}_3)_2$ | calcium chlorate |
| 4. FeO | iron (II) oxide | 15. $(\text{NH}_4)_2\text{O}$ | ammonium oxide |
| 5. Fe_2O_3 | iron (III) oxide | 16. $\text{Zn}(\text{HCO}_3)_2$ | zinc bicarbonate / |
| 6. CuCl_2 | copper (II) chloride | | zinc hydrogen carbonate |
| 7. NO_2 | nitrogen dioxide | 17. SnBr_4 | tin (IV) bromide |
| 8. CO | carbon monoxide | 18. $(\text{NH}_4)_2\text{S}$ | ammonium sulfide |
| 9. $\text{Al}_2(\text{SO}_4)_3$ | aluminum sulfate | 19. NiI_2 | nickel (II) iodide |
| 10. NaOH | sodium hydroxide | 20. MgCl_2 | magnesium chloride |
| 11. $\text{Sn}(\text{CN})_2$ | tin (II) cyanide | | |

Write the appropriate chemical formula for the following compounds:

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|----------------------------|--|--|---|
| 21. Lithium oxide | Li_2O | 32. Sodium phosphate | Na_3PO_4 |
| 22. Aluminum sulfide | Al_2O_3 | 33. nickel(II) nitrate | $\text{Ni}(\text{NO}_3)_2$ |
| 23. Calcium chloride | CaCl_2 | 34. lithium chromate **enriched** | Li_2CrO_4 |
| 24. Lead (IV) oxide | PbO_2 | 35. potassium permanganate | KMnO_4 |
| 25. Copper (II) iodide | CuI_2 | 36. silver chlorate | AgClO_3 |
| 26. Mercury (II) hydroxide | $\text{Hg}(\text{OH})_2$ | 37. potassium phosphate | K_3PO_4 |
| 27. Dinitrogen pentoxide | N_2O_5 | 38. sodium nitrate | NaNO_3 |
| 28. Carbon tetrahydride | CH_4 | 39. silver sulfide | Ag_2S |
| 29. Dihydrogen monoxide | H_2O | 40. nickel(II) acetate | $\text{Ni}(\text{C}_2\text{H}_3\text{O}_2)_2$ |
| 30. Ammonium chloride | NH_4Cl | | |
| 31. Copper (I) sulphate | Cu_2SO_4 | | |