

Unit 4 - Naming Worksheet

Part A: Write the correct chemical names for the following compounds. Pay attention to spelling.

What type of compound is this?

1. two nonmetals
2. metal with fixed charge + nonmetal
3. metal with variable charge + nonmetal
4. hydrate
5. binary acid
6. oxyacid

Compound	What type of compound is this?	Name of compound
1. Cu_2O	3	copper(I) oxide or cuprous oxide
2. $\text{Fe}_2(\text{SO}_4)_3$	3	iron(III) sulfate or ferric sulfate
3. $\text{K}_2\text{Cr}_2\text{O}_7$	2	potassium dichromate
4. P_4O_{10}	1	tetraphosphorus decoxide
5. $\text{AlCl}_3 \cdot 6\text{H}_2\text{O}$	4	aluminum chloride hexahydrate
6. SnSe_2	3	tin(IV) selenide stannic selenide
7. $\text{AgC}_2\text{H}_3\text{O}_2$	2	silver acetate
8. Mg_3N_2	2	Magnesium nitride
9. CaF_2	2	Calcium fluoride
10. PbCl_4	3	lead(IV) chloride plumbic chloride

Part B:

Write the correct chemical formulae for the following compounds.

Pay attention to using:

- Correct symbols (case-sensitive)
- Subscripts when necessary
- Bracket only when necessary

11. ammonium nitrate = NH_4NO_3

12. calcium chlorate = $\text{Ca}(\text{ClO}_3)_2$

13. potassium dichromate = $\text{K}_2\text{Cr}_2\text{O}_7$

14. ⁺⁴plumbic ⁻²carbonate = $\text{Pb}(\text{CO}_3)_2$

15. silver acetate = $\text{AgC}_2\text{H}_3\text{O}_2$

16. cuprous hydroxide = CuOH

17. potassium permanganate = KMnO_4

18. sulfuric acid = H_2SO_4

19. stannous hydroxide = $\text{Sn}(\text{OH})_2$

20. potassium cyanide = KCN