

Name _____

Naming Binary Compounds (Covalent)

Name each compound using the prefix method.

1. CO _____

2. CO₂ _____

3. SO₂ _____

4. NO₂ _____

5. N₂O _____

6. SO₃ _____

7. CCl₄ _____

8. NO _____

9. N₂O₅ _____

10. P₂O₅ _____

11. N₂O₄ _____

12. CS₂ _____

13. OF₂ _____

14. PCl₃ _____

15. PBr₅ _____

Name _____

Writing Formulas from Names

Write the formula for each compound.

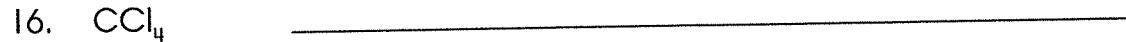
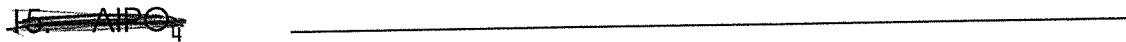
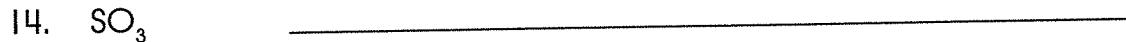
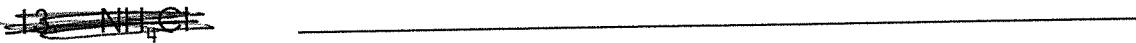
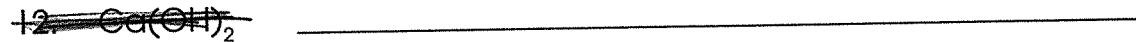
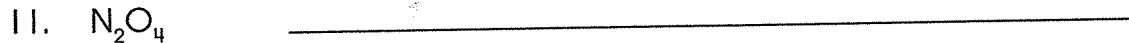
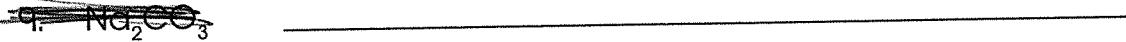
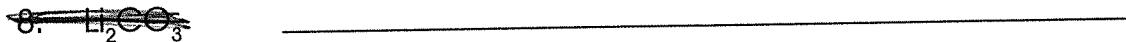
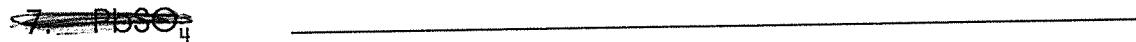
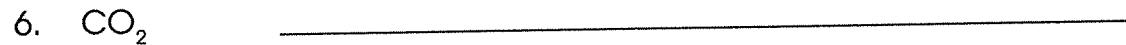
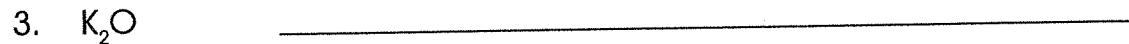
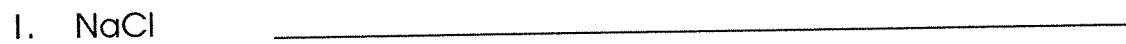
1. carbon monoxide _____
2. sodium chloride _____
3. carbon tetrachloride _____
4. magnesium bromide _____
5. aluminum iodide _____
6. hydrogen hydroxide _____
7. iron(0) fluoride _____
8. carbon dioxide _____
9. sodium carbonate _____
10. ammonium sulfide _____
11. iron(0) oxide _____
12. iron(0) sulfide _____
13. magnesium sulfate _____
14. sodium phosphate _____
15. dinitrogen pentoxide _____
16. phosphorus trichloride _____
17. aluminum sulfite _____
18. copper(I) carbonate _____
19. potassium hydrogen carbonate _____
20. sulfur trioxide _____

Name _____

don't do the crossed
out compound).

Naming Compounds (Mixed)

Name each compound.



Name _____

Example: ~~Pb⁴⁺O₂~~ cross

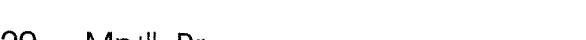
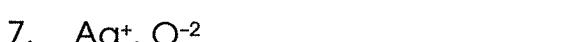
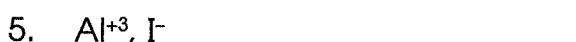
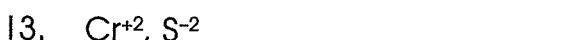
~~Pb₂O₄~~ reduce (if possible)

~~Pb₂O₂~~ don't write 1

FINAL: PbO₂

Writing Binary Formulas

Write the formula for the compounds formed from each ion.



Writing names/formulas from chemical equations

From the words or formulas, write the opposite. Do not worry about balancing yet! See the example below.

Example:

Aluminum bromide plus lithium chloride yields aluminum chloride and lithium bromide.



1. Potassium sulfide plus calcium fluoride yields potassium fluoride and calcium sulfide.
2. Water plus bromine gas yields hydrogen monobromide and oxygen gas.
3. Dinitrogen pentoxide plus boron trifluoride yields diboron heptoxide and nitrogen hexafluoride.
4. $\text{MgCl}_2 + \text{RbBr} \rightarrow \text{MgBr}_2 + \text{RbCl}$
5. $\text{SrO} + \text{NaI} \rightarrow \text{SrI}_2 + \text{Na}_2\text{O}$