

Ionic Naming and Common Ions

Student Worksheet | g09_u05_w18

I can: name ionic compounds, use common-ion charges, apply Roman numerals for multivalent metals, and write neutral formulas from names.

Vocabulary: ionic compound, monatomic ion, polyatomic ion, Roman numeral, nitrate, sulfate, hydroxide, ammonium.

1. Name NaCl.

2. Name MgO.

3. Name CaBr₂.

4. Write formula for potassium sulfide.

5. Write formula for aluminum oxide.

6. Give charge of nitrate.

7. Give charge of sulfate.

8. Give charge of hydroxide.

9. Give charge of ammonium.

10. Name NaNO₃.

11. Write formula for calcium nitrate.

12. Why use parentheses in Ca(NO₃)₂?

13. Name FeCl₂.

14. Name FeCl_3 .

15. Write formula for iron(III) oxide.

16. Explain what Roman numeral II means in copper(II) sulfate.

17. Name $(\text{NH}_4)_2\text{SO}_4$.

18. A student names Fe_2O_3 “iron oxide.” Find Fe charge and write complete name.

19. Write formula for copper(I) phosphate, given PO_4^{3-} .

20. Critique: “The subscript in iron(III) chloride tells the iron charge.”
