

Balancing Equations

Worksheet

Other Web Worksheets

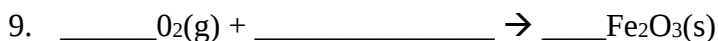
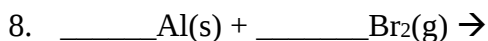
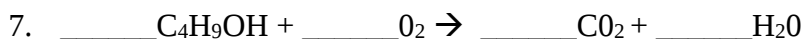
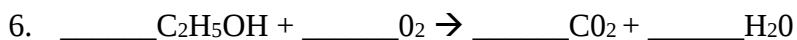
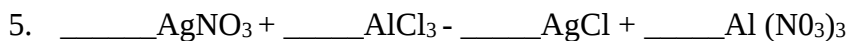
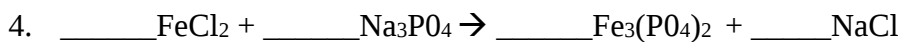
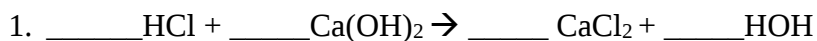
[Balancing Equations Worksheet 1](#)

[Balancing Equations Worksheet 2](#)

Balance each of the following reactions by determining the missing coefficients.

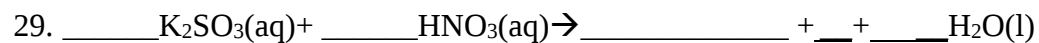
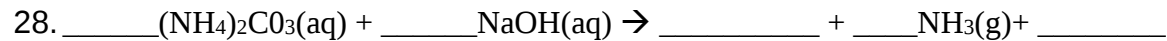
Determine missing reactants and products if necessary

State the type of reaction that it is (Single Replacement, Double Replacement, Decomposition, Synthesis or Combustion).



10. _____ Zn(s) + _____ HCl(aq) $\rightarrow$ _____ + _____
11. _____ Mg + _____ H₃PO₄ $\rightarrow$ _____ + _____
12. _____ NH₄OH(aq) $\rightarrow$ _____ NH₃(g) + _____
13. _____ Al₂O₃(s) $\rightarrow$ _____ Al(s) + _____
14. _____ KClO₃(s) $\rightarrow$ _____ O₂ + _____
15. _____ K(s) + _____ HOH(l) $\rightarrow$ _____ + _____ KOH(aq)
16. _____ Ba(s) + _____ $\rightarrow$ _____ Ba₃N₂(s)
17. _____ Cu(s) + _____ $\rightarrow$ _____ Cu₂S(s)
18. _____ FeCl₃(aq) + _____ H₃PO₄(aq) $\rightarrow$ _____ + _____
19. _____ SnCl₄(aq) + -- _____ $\rightarrow$ _____ NH₄Cl(aq) + _____ SnS₂(s)
20. _____ CaBr₂(aq) + _____ KOH(aq) $\rightarrow$ _____ + _____
21. _____ AgNO₃(aq) + _____ $\rightarrow$ _____ Ag₃PO₄(s) + _____ KNO₃(aq)
22. _____ + _____ Ba(OH)₂(aq) $\rightarrow$ _____ Al(OH)₃(s) + _____ BaCl₂(aq)
23. _____ Ca(C₂H₃O₂)₂(aq) + _____ $\rightarrow$ _____ $\rightarrow$ _____ CaCO₃(s) + _____ NaC₂H₃O₂(aq)
24. _____ Na₃PO₄(aq) + _____ ZnSO₄(aq) $\rightarrow$ _____ + _____
25. _____ Ba(ClO₃)₂(aq) + _____ Na₂S(aq) $\rightarrow$ _____ + _____
26. _____ + _____ AlCl₃(aq) $\rightarrow$ _____ KCl(aq) + Al₂(CrO₄)₃(s)
27. _____ + _____ HNO₃(aq) $\rightarrow$ _____ Ca(NO₃)₂(aq) + _____ H₂O(l)

Special Reactions:



Write a balanced equation for each of these word equations.

1. butane (C₄H₁₀) + oxygen → carbon dioxide + water
2. potassium phosphate + calcium nitrate → potassium nitrate + calcium phosphate
3. nitrogen + oxygen → nitrogen (V) oxide
4. potassium chlorate → potassium chloride + oxygen
5. acetylene (C₂H₂) + hydrogen → ethane (C₂H₆)
6. barium hydroxide + hydrogen chloride → water + barium chloride
7. calcium iodide + sulfuric acid
8. manganese sulfide + lead (IV) chloride
9. potassium hydroxide + iron (III) chloride
10. zinc bromide + sodium carbonate
11. barium carbonate + sulfuric acid
12. potassium hydroxide + ammonium sulfate
13. sodium sulfite + hydrogen chloride

Other Web Worksheets (Same as the top of the page)

[Balancing Equations Worksheet 1](#)

[Balancing Equations Worksheet 2](#)