

## Classifying Reactions and Completing Chemical Equations

In each case below, a chemical reaction occurs. First classify the reaction (synthesis, decomposition, single replacement, double replacement, hydrocarbon combustion, other). Then use the classification to predict the missing reactants or products. Write a balanced equation for the reaction.

- 1) Chlorine gas is bubbled through a solution of magnesium bromide.

Classification	
Balanced Equation	

- 2) A solution of silver nitrate is mixed with a solution of calcium chlorate.

Classification	
Balanced Equation	

- 3) Aluminum metal dust is mixed with iron(III) oxide powder and heated.

Classification	
Balanced Equation	

- 4) Two solutions are mixed. The products are lead(II) iodide and sodium nitrate.

Classification	Double Replacement
Balanced Equation	

- 5) A strip of metal is placed into an unknown solution. Gold metal precipitates and a solution of magnesium chloride is produced.

# Classifying Reactions And Completing Equations

**Samuel Wilson Parr**



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