

Science 1.8 AS 90947 Investigate selected chemical reactions

Comparing reaction types

In each square between reactions note down any **similarities** the reactions have with each other

Reaction types	Combination	Precipitation	Displacement	Thermal decomposition
Combination These reactions occur when two or more reactants combine to form one product.				
Precipitation These reactions occur when two solutions react together to form a solid that settles out of the solution. The solid formed is called the precipitate.				
Displacement These reactions occur when a metal and salt (ionic compound) solution are mixed and the more reactive metal replaces the metal in the salt.				
Thermal Decomposition These reactions occur when one substance is broken apart with the use of heat energy into two or more smaller substances.				

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Contrasting reaction types

In each square between reactions note down any **differences** the reactions have with each other

Reaction types	Combination	Precipitation	Displacement	Thermal decomposition
Combination These reactions occur when two or more reactants combine to form one product.				
Precipitation These reactions occur when two solutions react together to form a solid that settles out of the solution. The solid formed is called the precipitate.				
Displacement These reactions occur when a metal and salt (ionic compound) solution are mixed and the more reactive metal replaces the metal in the salt.				
Thermal Decomposition These reactions occur when one substance is broken apart with the use of heat energy into two or more smaller substances.				