

Indicator Colour Code			
Name	Colour in Acid	Colour at neutral	Colour in Base
Universal Indicator (UI)	Red	Green	Blue
Litmus	Red	Purple	Blue
Methyl Orange	Red	Yellow	Yellow
Phenolphthalein	Colourless	Colourless	Pink

### Neutralisation

If you mix together exactly the right amounts of acid and alkaline, you can achieve **neutralisation**. This experiment is called a **titration**. The point at which the indicator indicates that the solution is neutral is known as the **end point** of the titration. This experiment is often performed using a **burette**, a conical flask and **methyl orange** indicator.

### MASH

#### Metal + Acid $\Rightarrow$ Salt + Hydrogen

Metals above hydrogen in the reactivity series react with acids to form a salt and hydrogen

Simple acids contain hydrogen, when the hydrogen is displaced by the more reactive metal, the resulting compound is called a salt and the hydrogen is on its own

#### Other Formula

Metal + Acid  $\Rightarrow$  Salt + Hydrogen

Metal Oxide + Acid  $\Rightarrow$  Salt + Water

Metal Hydroxide + Acid  $\Rightarrow$  Salt + Water

Metal Carbonate + Acid  $\Rightarrow$  Salt + Water + Carbon Dioxide

Ammonia + Acid  $\Rightarrow$  Salt (depending upon conditions)



By **aatemplebowles**

[cheatography.com/aatemplebowles/](https://cheatography.com/aatemplebowles/)

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