



OBSERVATIONS

Chemical Change - Metal and Acid

Chemical changes occur through the process of chemical reactions, and the resulting substances have different properties because their atoms and molecules are arranged differently. In this TACTivity, magnesium reacts with citric acid to create magnesium citrate and liberates hydrogen gas. Let us observe and record the standard indicators of chemical change.

Indicators of Chemical Change

Let us observe and record which (if any) of the 7 indicators of chemical change are visible during/after this reaction. Predict before observing and record in the given boxes based on the given options.

Your options for temperature change are: 'N' – No change, 'W' – Warm and 'C' – Cold

Your options for gaseous release are: 'E' – Effervescence and 'N' – No gas released

Your options for smell are: 'N' – No smell, 'U' – Unpleasant smell and 'P' – Pleasant smell

Your options for colour change are: 'N' – No change and 'C' – Colour change

Your options for residue after reaction are: 'M' – Magnesium strips, 'P' – Precipitate and 'N' – No residue

Your options for volume change are: 'R' – Reduction, 'I' – Increase and 'N' – No change

Your options for production of light are: 'L' – New light source created and 'N' – No emission of light

#	Indicators	Prediction	Observation
01	Temperature Change	<input type="checkbox"/>	<input type="checkbox"/>

#	Indicators	Prediction	Observation
02	Gaseous Release	<input type="checkbox"/>	<input type="checkbox"/>
03	Smell	<input type="checkbox"/>	<input type="checkbox"/>
04	Colour Change	<input type="checkbox"/>	<input type="checkbox"/>
05	Residue after Reaction	<input type="checkbox"/>	<input type="checkbox"/>
06	Volume Change	<input type="checkbox"/>	<input type="checkbox"/>
07	Production of Light	<input type="checkbox"/>	<input type="checkbox"/>

Properties of the Gas Released

Conduct the test of exposing the released gas to flame as instructed in the guide. Also observe and record the colour and smell of the gas.

Your options for effect of exposing the gas to flame are: 'F' – Flame extinguishes, 'L' – Loud explosion, 'P' – Pop sound and 'N' – No effect

Your options for smell are: 'O' – Odourless, 'P' – Pleasant smell and 'U' – Unpleasant smell

Your options for colour are: 'C' – Colourless and 'V' – Visible colour

#	Gas Properties	Prediction	Observation
08	Effect of exposing the gas to flame	<input type="checkbox"/>	<input type="checkbox"/>
09	Smell	<input type="checkbox"/>	<input type="checkbox"/>
10	Colour	<input type="checkbox"/>	<input type="checkbox"/>