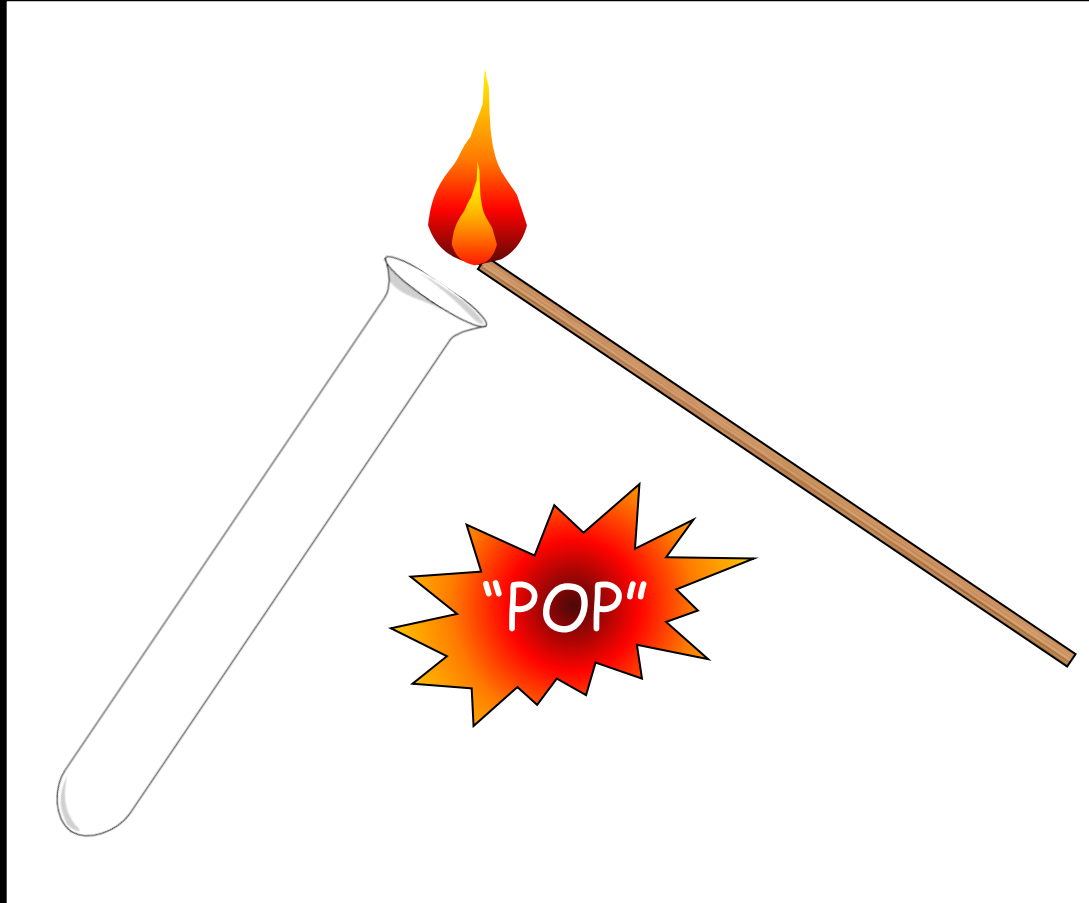


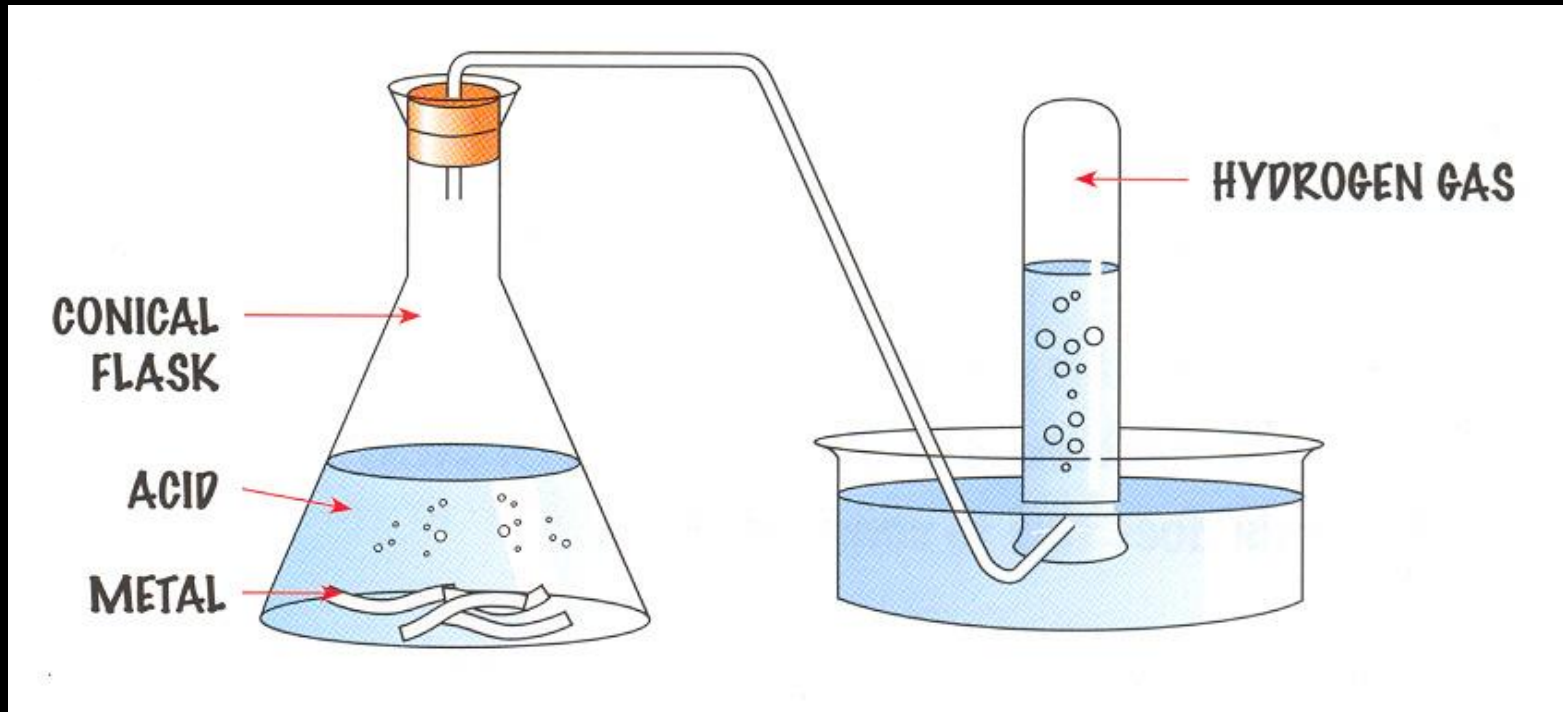
Simple Chemical Reactions

Testing for hydrogen



Adding acids to metals

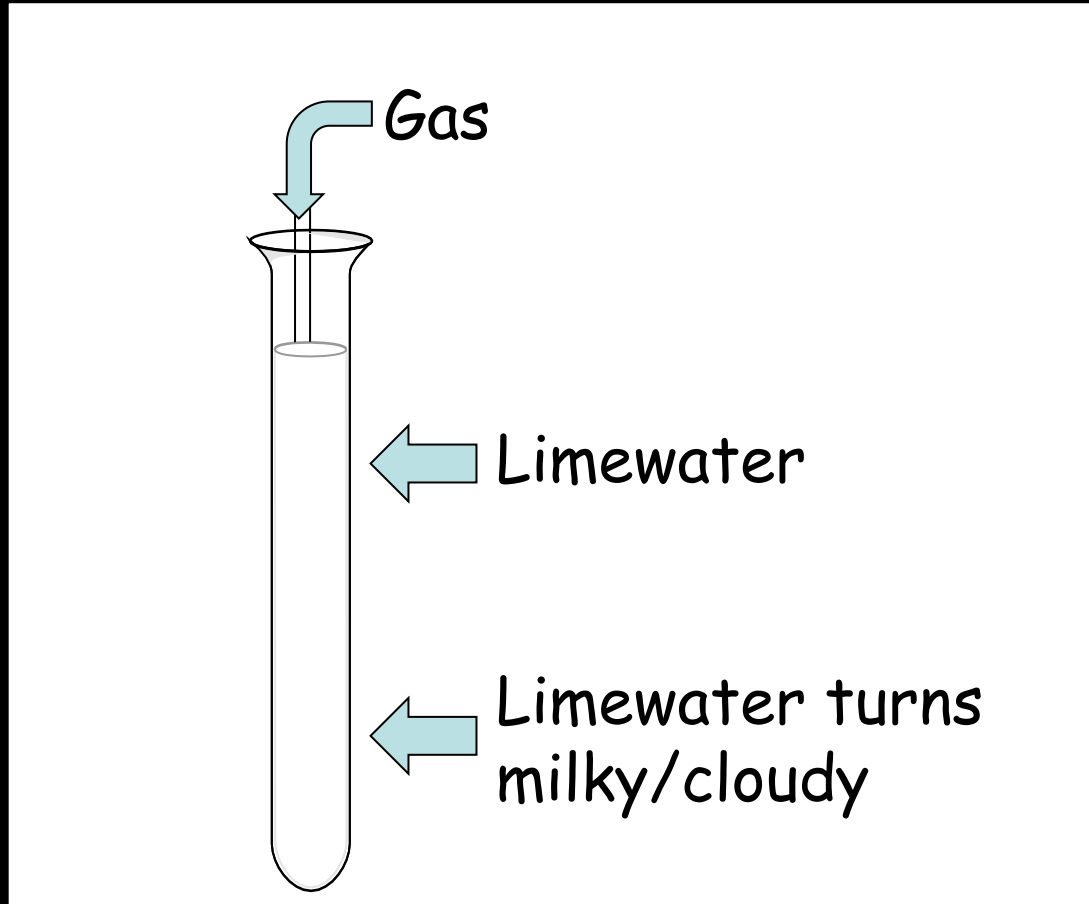
If an acid is added to a (fairly reactive) metal the metal will be quickly _____ by the acid. We can see a reaction happening because the mixture _____ and the metal eventually _____.



Some metals, like _____, are so unreactive that nothing will happen.

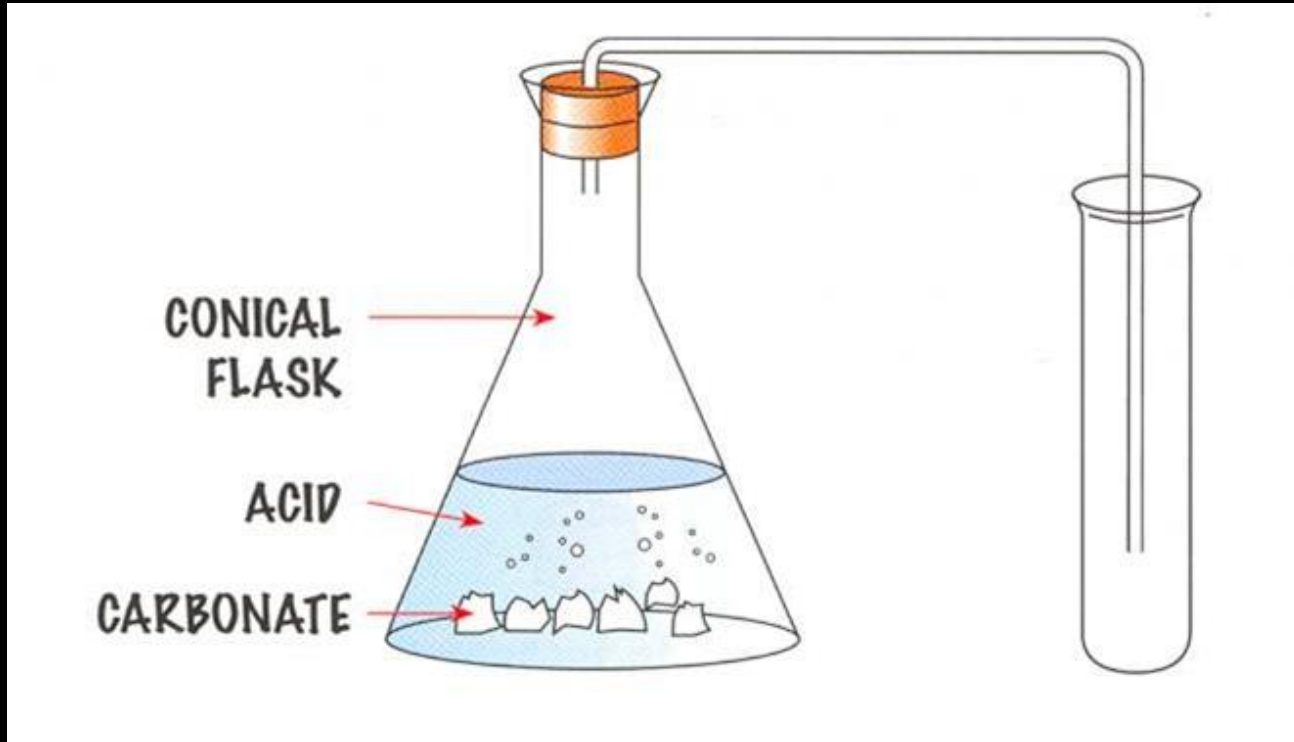
Words - gold, corroded, fizzes, disappear

Testing for carbon dioxide



Adding acid to carbonates

Carbonates are compounds containing carbon and oxygen. When an acid is added to a carbonate the carbonate starts to _____. A gas called _____ is produced.



Carbonates used to be used as building materials but aren't any more because acid rain would eventually _____ the building.

Words - dissolve, fizz, carbon dioxide, oxygen

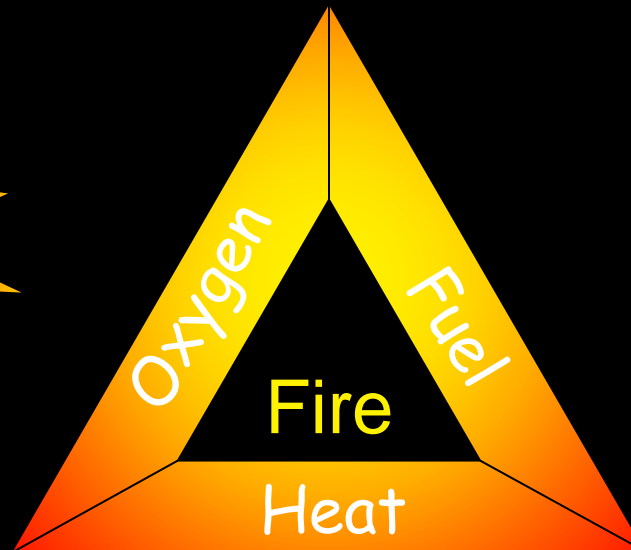
Burning things

When something is burned it reacts with oxygen. For example:

Magnesium + oxygen \longrightarrow Magnesium oxide

Carbon + oxygen \longrightarrow Carbon dioxide

Sulphur + oxygen \longrightarrow Sulphur dioxide



Fuels

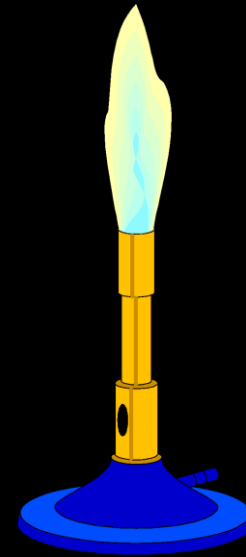
Fuels are substances that can be used to release useful amounts of energy when they burn, e.g.



Wood



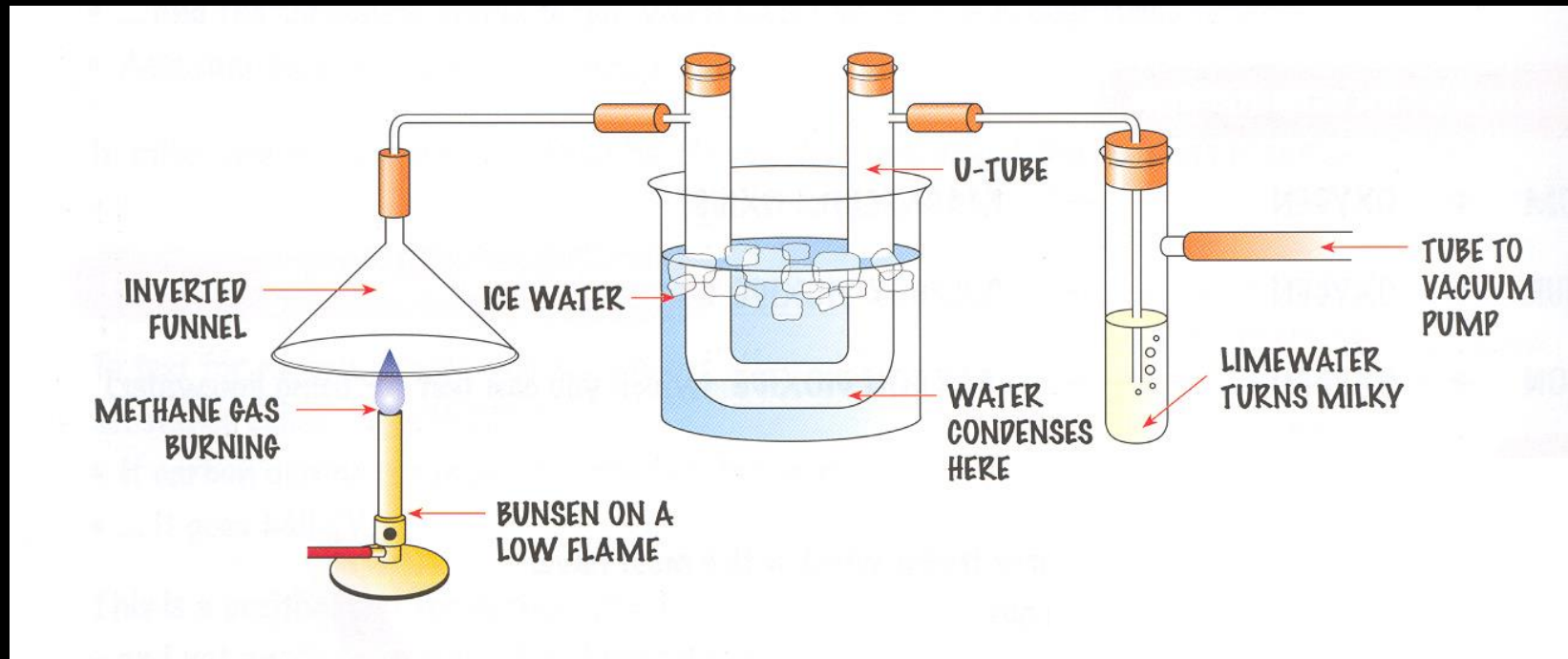
Oil



Gas

Burning fuels

When fossil fuels (coal, oil and gas) are burned they produce water and carbon dioxide. We can use this apparatus to show this:



In this example the reaction is:

