

# Reactions of Acids

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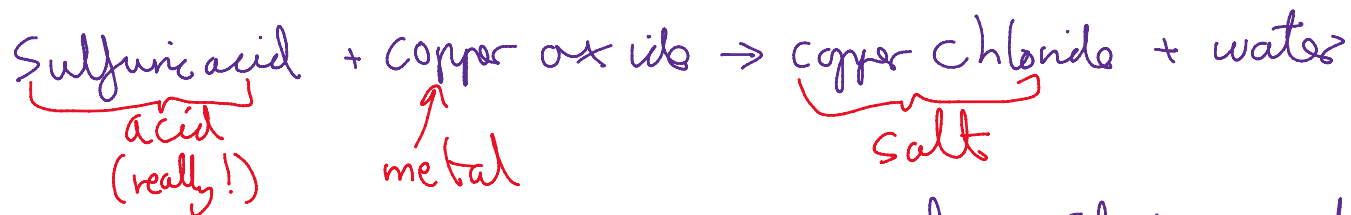
## Metal Oxides and Metal Hydroxides

Metal oxides and metal hydroxides are bases. Many, not all, of these metal oxides and metal hydroxides dissolve in water and are therefore alkalis. Either way, they all react with an acid to form water and a salt (yes, even those that don't dissolve)

Acid + metal oxide  $\rightarrow$  Salt + water

Acid + metal hydroxide  $\rightarrow$  Salt + water

There are many different salts just as you have many different metals with which to create the oxide / hydroxide



## Metal Carbonates

Metal carbonates are also bases.

Acid + metal carbonate  $\rightarrow$  Salt + water + carbon dioxide

