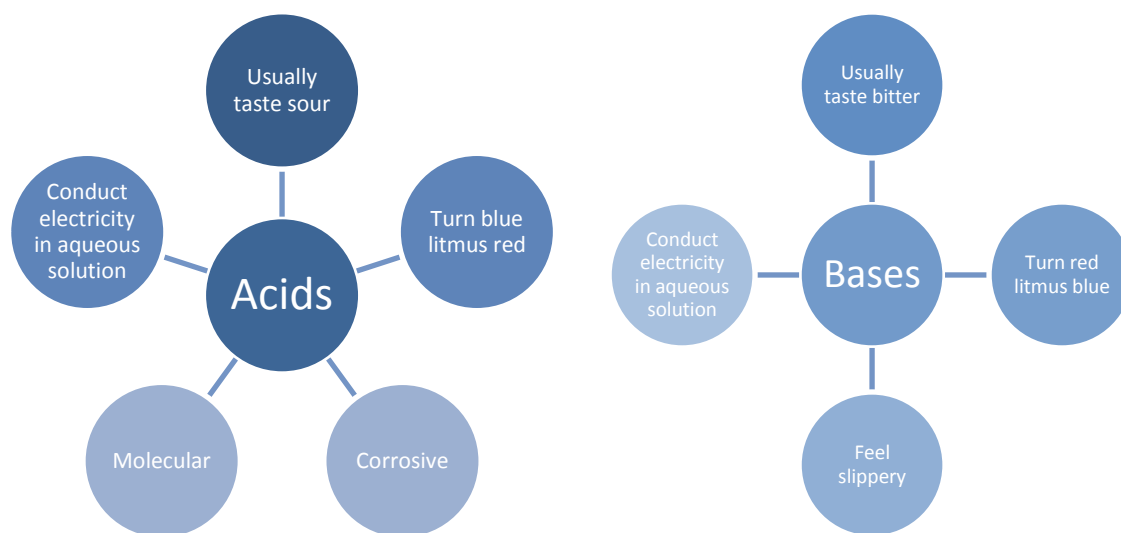


8.2 – Properties of Acids and Bases

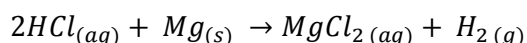
8.2.1 - Outline the characteristic properties of acids and bases in aqueous solution



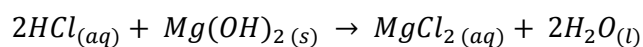
Note that an **alkali** is a base that dissolves in water.

Reactions of Acids

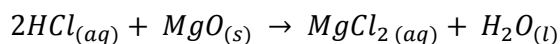
Reaction with a **metal** to form a salt and hydrogen gas. Exceptions are Cu, Hg and Ag.



Reaction with a **metal hydroxide** to form a salt and water.



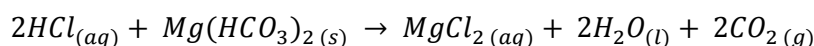
Reaction with a **metal oxide** to form a salt and water



Reaction with **metal carbonate** to produce a salt, water and carbon dioxide

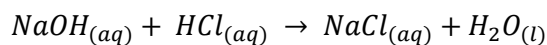


Reaction with a **metal hydrogen carbonate** to form a salt, water and carbon dioxide

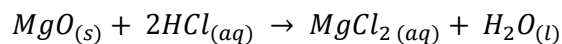


Reactions of Bases

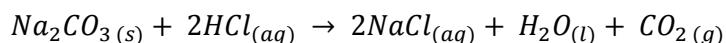
Reaction of an **alkali** with an **acid** to form a salt and water



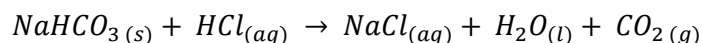
Reaction of a **metal oxide** with an **acid** to form a salt and water



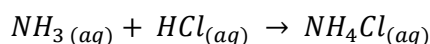
Reaction of a **metal hydrogen carbonate** with an **acid** to produce a salt, water and carbon dioxide



Reaction of a **hydrogen carbonate** with an **acid** to form a salt, water and carbon dioxide



Reaction of **ammonia** with an **acid** to produce an ammonium salt



Response to Indicators

Indicators change colour depending on the pH. Acids will cause the pigment to show a different colour from bases.

