Properties of Acids and Bases

Acids

- -sour tasting
- -water soluble
- -react with some metals to produce H₂ gas
- -react with some carbonate groups to produce carbon dioxide gas
- -good conductors of electricity
- -important in industry
- -very corrosive and can burn skin
- -can cause serious environmental damage

ALWAYS contain a H+ ion when in solution

Bases

-bitter tasting

-feel slippery when dissolved in water

-good conductors of electricity

react with proteins to break down

-called 'alkaline'

ALWAYS contain an OH- ion when in solution

pH Scale

- -pH is a logarithmic scale, ranges from 1-14
- -each increase of one unit is a ten times change in acidity or alkalinity
- -as pH decreases the solution becomes more acidic
- -example, a pH of 4 is ten times more acidic than pH 5 and 100 times more acidic than pH 6

