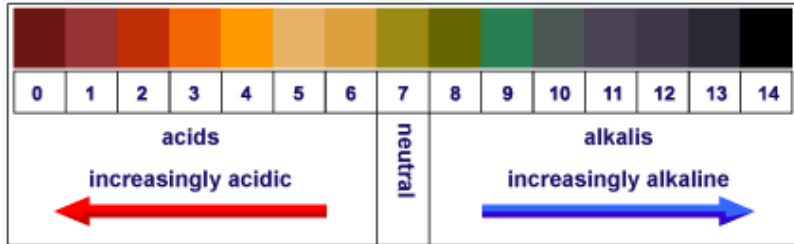


Chemistry Crib Sheet: Topic 4



Indicators change colour as pH changes.
 Universal Indicator gives the colours above
 You can also use a pH probe and pH meter- MORE ACCURATE

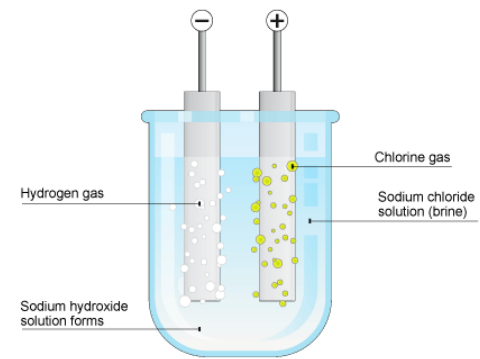
GAS	TEST
Chlorine	Bleaches damp litmus paper white
Hydrogen	Lighted splint, squeaky pop
Oxygen	Glowing splint, relights

ELECTROLYSIS- Splitting up with electricity

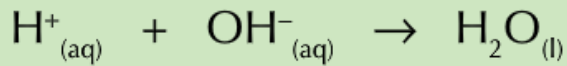
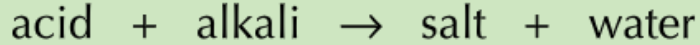
Positive cations move towards the negative cathode.

Negative anions move towards the positive anode.

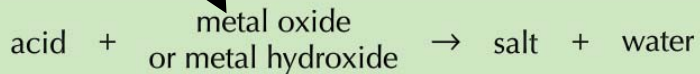
Metals can be split up from their ores using electrolysis eg. Aluminium



ACID REACTIONS:



BASE



BUBBLES!



Metals above carbon extracted using **electrolysis**

- expensive
- uses energy

Metals below carbon extracted using **reduction using carbon**

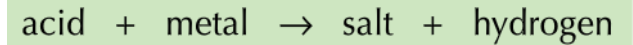
- blast furnace
- Metal is separated from its **ore**

Some metals found naturally

Most reactive		Least reactive
Potassium	K	
Sodium	Na	
Calcium	Ca	
Magnesium	Mg	
Aluminium	Al	
Carbon	C	
Zinc	Zn	
Iron	Fe	
Tin	Sn	
Lead	Pb	
Hydrogen	H	
Copper	Cu	
Silver	Ag	
Gold	Au	
Platinum	Pt	

OXIDATION = GAIN OF OXYGEN
 REDUCTION = LOSS OF OXYGEN

METAL REACTIONS:



BUBBLES & SQUEAKY POP!



DISPLACEMENT- A MORE REACTIVE METAL WILL DISPLACE A LESS REACTIVE METAL