



Assessment = ★

Self-assessment = ★



Apply:
CC13 Halogen reactivity
CC14 Rates of reaction

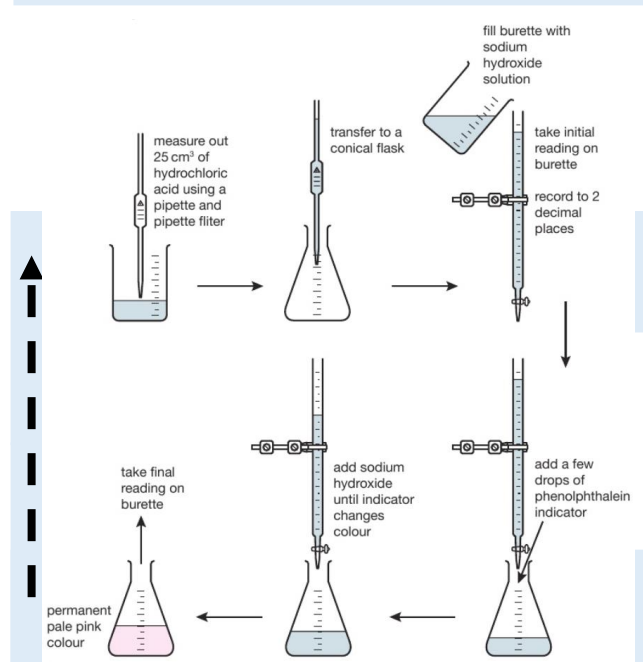
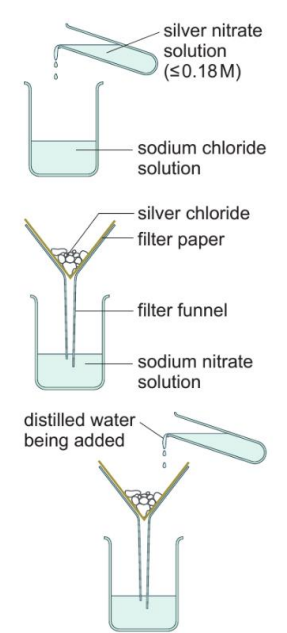
Revision lesson

Focus on retrieval, key word definitions and equations.

Assessment & Review

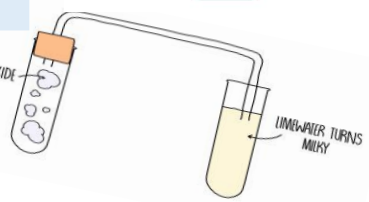
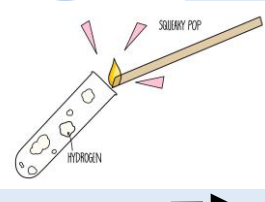
Solubility

Not all salts are soluble, learn the rules!
Insoluble salts, mix, filter, wash, dry.



Reactions of acids with metals and carbonates

Hydrogen and carbon dioxide gas tests.



Alkalis and neutralisation

Ions in neutralisation and titration.

Mass of calcium oxide added (g)	pH of reaction mixture
0.0	0.3
0.5	0.6
1.0	2.8
1.5	12.3
2.0	12.5



Investigating neutralisation

CORE PRACTICAL
Neutralising acid with a solid base

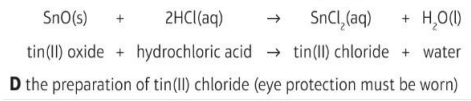
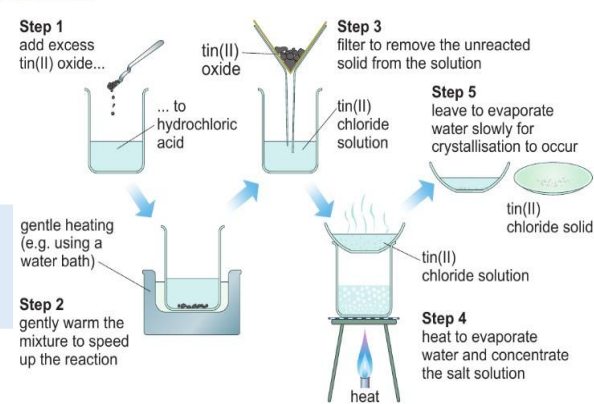


Alkalis and balancing equations

Alkalis are soluble bases.

Preparing copper sulfate

CORE PRACTICAL
Soluble salt from Insoluble base



Common acids	Formula
hydrochloric acid	HCl
sulfuric acid	H ₂ SO ₄
nitric acid	HNO ₃
Common alkalis	Formula
sodium hydroxide	NaOH
potassium hydroxide	KOH
calcium hydroxide	Ca(OH) ₂

Bases and salts

Metal oxides are insoluble bases

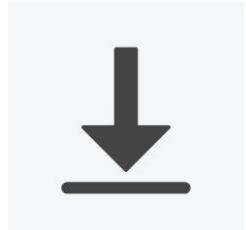
Looking at acids

HIGHER TIER ONLY
Dilute and concentrated

indicator	litmus	methyl orange	phenolphthalein
colour in alkaline solutions	blue	yellow	pink
colour in acidic solutions	red	red	colourless

Acids, alkalis & indicators

Acids release hydrogen ions, alkalis release hydroxide ions.



Retrieve:
Year 7 Acids and alkalis
Year 9 reactions of acids and metals
SC5 Ions

Keywords
Acid, indicator, alkali, salt, neutral, concentrated, dissociate, pH meter, strong acid, weak acid, salt, state symbols, balanced equation, burette, pipette, conical flask, titration, end-point, ionic equation, precipitate. Check the word sheet for more key words and definitions.