



Assessment = ★

Self-assessment = ★



Apply:
SC14 Titration calculations
SC23 organic acids

Revision lesson

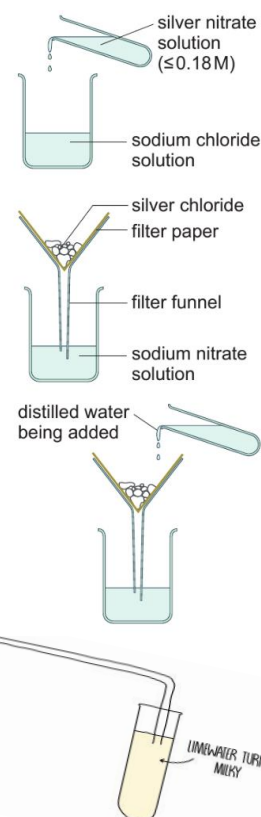
Focus on retrieval,
key word
definitions and
equations.

Assessment & Review



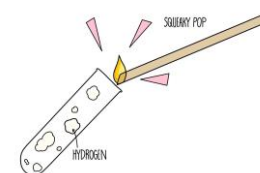
Solubility

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



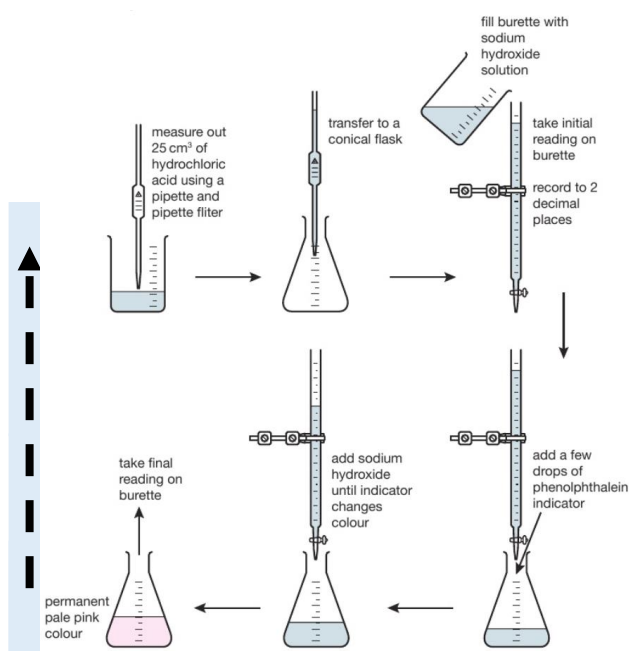
Reactions of acids with metals and carbonates

Hydrogen and
carbon dioxide gas
tests.



Alkalis and neutralisation

Ions in
neutralisation and
titration.



Investigating neutralisation

CORE PRACTICAL
Neutralising acid
with a solid base



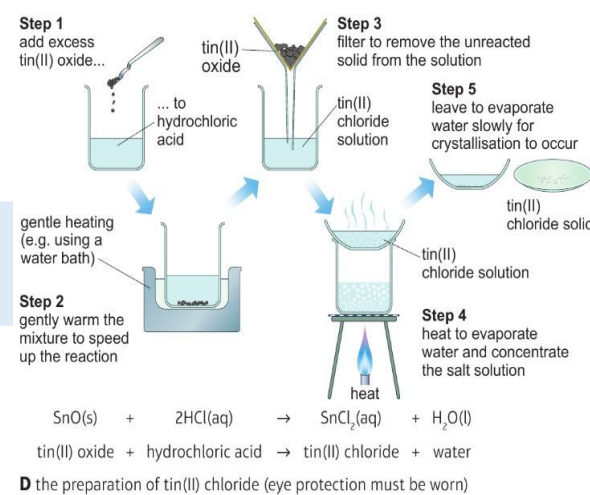
Mass of calcium oxide added (g)	pH of reaction mixture
0.0	0.3
0.5	0.6
1.0	2.8
1.5	12.3
2.0	12.5

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, insoluble, 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.