



SC25 Qualitative analysis: tests for ions

Personal learning checklist | 1 of 1

GCSE Edexcel Separate Sciences | Chemistry Paper 2

Name _____ Class _____ Date _____

Tick one box for each statement. Red: need help. Amber: partly confident.
Green: can do independently.

I can	Red	Amber	Green
Flame tests			
Explain distinctive tests, clean apparatus, separate samples and safe ion-test planning.	☐	☐	☐
Describe and interpret flame tests for lithium, sodium, potassium, calcium and copper.	☐	☐	☐
Cation tests			
Interpret sodium hydroxide precipitates for aluminium, calcium, copper and iron ions.	☐	☐	☐
Describe ammonium testing and confirm ammonia using damp red litmus.	☐	☐	☐
Anion tests and unknowns			
Describe carbonate testing and confirm carbon dioxide.	☐	☐	☐
Describe sulfate testing and explain acidification.	☐	☐	☐
Describe halide testing and interpret white, cream and yellow precipitates.	☐	☐	☐
Identify unknown salts using combined cation and anion evidence and ionic equations.	☐	☐	☐
Instrumental methods			
Evaluate instrumental analysis using sensitivity, accuracy, speed, cost and calibration.	☐	☐	☐
Interpret flame-photometer references, calibration curves and dilution corrections.	☐	☐	☐

My next revision priority _____