



SC1 States of matter

Personal learning checklist | 1 of 1

GCSE Edexcel Separate Sciences | Chemistry Paper 1

Name _____ Class _____ Date _____

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

I can	Red	Amber	Green
Particle arrangements			
Compare particle spacing, arrangement and movement in solids, liquids and gases.	☐	☐	☐
Use particle models to explain shape, volume, flow and compressibility.	☐	☐	☐
Evaluate particle diagrams, including conserved particle identity, scale and model limitations.	☐	☐	☐
Energy and state changes			
Explain heating and cooling in terms of kinetic energy and particle attractions.	☐	☐	☐
Name melting, freezing, evaporation, boiling, condensation, sublimation and deposition.	☐	☐	☐
Explain why state changes preserve chemical identity and can be reversed.	☐	☐	☐
Explain energy absorption and release during melting, boiling, freezing and condensation.	☐	☐	☐
Observations and temperatures			
Distinguish evaporation from boiling and explain condensation in everyday examples.	☐	☐	☐
Distinguish invisible water vapour from droplets, frost and subliming dry ice.	☐	☐	☐
Predict states using melting and boiling points, including negative temperatures and transition boundaries.	☐	☐	☐
Interpret heating and cooling curves and explain constant-temperature sections.	☐	☐	☐
Explain gas pressure and heating effects in a sealed container of fixed volume.	☐	☐	☐

My next revision priority _____