



SC7 Types of substance

Personal learning checklist | 1 of 1

GCSE Edexcel Separate Sciences | Chemistry Papers 1 and 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
Structures and evidence			
Compare ionic, simple molecular, giant covalent and metallic structures using their physical properties.	☐	☐	☐
Evaluate structural models and use several properties rather than solubility alone to identify structures.	☐	☐	☐
Carbon structures			
Explain diamond's hardness, high melting point and poor conductivity using its four-bond network.	☐	☐	☐
Explain graphite's softness, high melting point and conductivity using layered bonding and delocalised electrons.	☐	☐	☐
Link diamond and graphite properties to cutting tools, lubricants and electrodes.	☐	☐	☐
Compare graphene's single layer with graphite and describe its useful strength and conductivity.	☐	☐	☐
Other carbon forms and metals			
Describe fullerene cages and carbon nanotubes and relate their structures to possible uses.	☐	☐	☐
Explain metallic bonding and electrical conduction using positive ions and delocalised electrons.	☐	☐	☐
Explain metal malleability and ductility and why alloys can be harder than pure metals.	☐	☐	☐

My next revision priority _____