

SC26 Bulk and surface properties of matter including nanoparticles



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
Bulk materials			
Compare ceramics, polymers and metals using physical-property data.	☐	☐	☐
Explain composite structure and choose materials for specified uses.	☐	☐	☐
Particle size and surface area			
Compare nanoparticle, atom and molecule sizes and convert nanometres to metres.	☐	☐	☐
Calculate surface-area-to-volume ratios and explain the effect of decreasing particle size.	☐	☐	☐
Explain why nanoparticles can have different properties and stronger surface effects than bulk material.	☐	☐	☐
Applications and risks			
Explain nanoparticle uses in sunscreens, catalysts and antimicrobial coatings.	☐	☐	☐
Evaluate nanoparticle risks using material, exposure, toxicity and environmental evidence.	☐	☐	☐

My next revision priority _____