High Tunstall College of Science Curriculum Intent

Subject: Chemistry Year: 7

Thread 2—Structure, bonding and quantitative Chemistry



	Chemistry Thread 2		Progress		
Topic	Key ideas	R	Α	G	
Structure, bonding and quan- titative chemistry	I can describe the particle theory and model this				
	I can relate the particle theory to properties of solids, liquids and gases				
	I can identify changes of state				
	I can explain what nanotechnology is, and give some uses of this				
	I can explain what ceramics are and give their uses				
	I can explain what composites are and give their uses				
	I can explain what plastics/polymers are and give their uses				

Lesson	Learning Focus	Assessment	Key Words	
1	What is the particle theory?	Identification of solids, liquids and gases. Completion of practical work and application of findings to the particle model of solids, liquids and gases	Particle, solid, liq- uid, gas, pressure, compress, energy	
2	What happens when we cool or heat materials?	Completion of practical work and conclusions made	Freeze, evaporate, condense, melt, change of state	
3	What is nanotechnology?	Completion of differentiated tasks to self assess understanding of the uses of nanotechnology	Nano, nanotechnology, nanoparticles	
4	What are ceramics?	Completion differentiated tasks looking at uses of ceramics and how they are made	Ceramic	
5	What are composites?	Application task to design a composite for a particular use	Composite, mixture	
6	What are polymers?	Application task choosing an appropriate polymer based on properties, and justifying the choice made	Polymer, plastic	