

High Tunstall College of Science Curriculum Intent

Subject: Chemistry Year: 9

Thread 4 - The rate and extent of chemical change



	Chemistry Thread 4	Progress		
Topic	Key ideas	R	A	G
The rate and extent of chemical change	I can explain how to calculate rates of reaction using an equation			
	I can explain collision theory of chemical reactions			
	I can investigate how surface area affects the rate of a reaction			
	I can investigate how concentration affects the rate of reaction			
	I can investigate how temperature affects the rate of reaction			

Lesson	Learning Focus	Assessment	Key Words
1	How do we calculate rates of reaction?	Completion of differentiated tasks	Rate, product, reactant
2	What is collision theory?	Completion of differentiated tasks and self assessment	Collision
3	How does surface area affect the rate of reaction?	Completion of practical work and conclusions made	Surface area, collisions, rate
4	How does concentration affect the rate of reaction?	Completion of practical work and conclusions made	Concentration, collisions, rate
5	How does temperature affect the rate of reaction?	Completion of practical work and conclusions made	Temperature, collisions, rate