

# High Tunstall College of Science Curriculum Intent

Subject: Chemistry (Trilogy) Year: 10

## Thread 4 —The rate and extent of chemical change



	Chemistry Thread 4—The rate and extent of chemical change	Progress		
Topic	Key ideas	R	A	G
The rate and extent of chemical change	I can use ideas of collision theory to explain how factors affect the rate of a chemical reaction			
	I can use results from practical work and graphical representations to calculate the rate of a chemical reaction, describing how and why this changes as a reaction progresses			
	I can complete practical work to calculate the rate of a chemical reaction			
	I can explain what is meant by reversible reactions and give examples of these			
	I can explain how energy changes in reversible reactions			

Lesson	Learning Focus	Assessment	Key Words
1 and 2	What factors affect the rate of reaction? Tem	Practice questions	Collision theory
3	How can we measure rate of reaction?	Practice Questions	Gradient
4 and 5	RPA—Reactions	Completion of RPA	
6	What are catalysts?	Completion of application task looking at catalysis in action	Activation energy
6	What are reversible reactions, and how does energy change in these?	Practice Questions	Reversible