

High Tunstall College of Science Curriculum Intent

Subject: Chemistry Year: 8

Thread 3 – Chemical and energy change



	Chemistry Thread 3	Progress		
Topic	Key ideas	R	A	G
Chemical and energy change	I can represent chemical reactions using word and symbol equations			
	I can explain what an oxidation reaction is			
	I can recall names of acids and alkalis, and explain what a neutralisation reaction is			
	I can compare reactions of different metals with acid, and use these to make predictions about reactivity			
	I can explain what a displacement reaction is, and use knowledge of the reactivity series to predict the products of these			
	I can explain how different metals are extracted			
	I can describe how energy changes in a reaction			

Lesson	Learning Focus	Assessment	Key Words
1	How can we represent chemical reactions?	Production of word equations and balanced symbol equations	Reaction, equations
2	What are oxidation reactions?	Production of symbol equations that show oxidation	Oxidation
3	What is neutralisation?	Application of neutralisation to real life contexts	Neutralisation
4	What is the reactivity series?	Connect information and observations from different sources to produce a reactivity series	Reactivity
5	What are displacement reactions?	Produce an analogy to explain displacement	Displacement
6	How are metals extracted?	Produce a scientific report suggesting the most appropriate ways to extract different metals	
7	How does energy change in a chemical reaction?	Consideration of application of exothermic and endothermic reactions	
8	Review prior learning	Identify areas of strength and areas for improvement.	