

Year 8 Learning Map

C2 - Energy and Types of Reaction				
Prior Learning This topic builds on C2 from the Year 7 scheme of learning where you learned about metals and non-metals and their properties. You also learned about reactions of metals, alkalis and acids.		Current Learning In this topic, you will learn how chemical reactions happen and the different energy changes that take place which result in reactions either heating up or cooling down. You will also learn about different types of reactions such as thermal decomposition reactions.		Subsequent Learning This topic will prepare you for GCSE Chemistry, where in C1 you will learn about factors that affect the rate of chemical reactions. You will also learn about metallic bonding in C3, and reactivity series in C5.
Lesson Sequencing		Tier 3 Vocabulary	Wider Reading Opportunities	Ways in which parents/carers can support
Lesson 1	Energy changes	Catalysts	'KS3 CPG Science Revision Guide' contains useful revision materials for the science course. Why Chemical Reactions Happen by James Keeler	Encourage students to use their course home learning booklets to revise and practice key information after each lesson. Ensure students are accessing Microsoft Teams to complete work directed by their teachers.
Lesson 2	Reaction profiles	Exothermic reaction		
Lesson 3	Types of reactions	Endothermic reaction		
Lesson 4	Combustion	Chemical bond		
Lesson 5	Thermal decomposition	pH		
Lesson 6	Types of reactions	Indicators		
Lesson 7	Types of reactions	Base		
Lesson 8	Practical to investigate energy changes in a reaction.	Concentration		
Lesson 9	Directed improvement and reflection time			