



Year	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6
7	Topic: Matter	Topic: Separation	Topic: Acids/ Alkalis	Topic: Metals/ Non metals	Topic : Climate and Resources	Topic: Earth
	Resources: PP, Practical	Resources: PP, Practical	Resources: PP, Practical	Resources: PP, Practical		Resources: PP, Practical
	Activities, Handouts, KS3	Activities, Handouts, KS3	Activities, Handouts, KS3	Activities, Handouts, KS3	Resources: PP, Practical	Activities, Handouts, KS3
	Book 1	Book 1	Book 1	Book 1	Activities, Handouts, KS3 Book 2 Focus: The effect of	Book 1
	Focus: An introduction to the	Focus: Learning about	Focus: Using experimental	Focus: Discovering the	humans on planet Earth's	Focus: Finding out about the
	states of matter, changes of	scientific equipment and	techniques to learn about	properties of metals and	atmosphere and the impact	structure of planet Earth and
	state and the particle theory	procedures used to separate	the reactions and use of	non-metals and learning	it could have on future	the varying types of rocks
	in relation to chemistry.	substances.	acids and alkalis.	how to recognise reactivity through observation.	generations.	that exist beneath our feet.
	Outcome: Practical	Outcome: End of Term	Outcome: Practical	Ū.	Outcome: Structure strip	Outcome: End of Term
	Assessment	Assessment	Assessment	Outcome: Practical Assessment	Assessment	Assessment
	Duration: 9 lessons	Duration: 7 lessons	Duration: 7 lessons		Duration: 7 lessons	Duration: 6 lessons
				Duration: 7 lessons		
8	Topic: Periodic Table	Topic: Types of reactions	See Physics/Biology Overview	Topic: Rates Investigation	Topic: Chemical Energy	See Physics/Biology Overview
	Resources: PP, Practical	Resources: PP, Practical		Resources: PP, Practical	Resources: PP, Practical	
	Activities, Handouts, KS3	Activities, Handouts, KS3		Activities, Handouts, KS3	Activities, Handouts, KS3	
	Book 2	Book 2		Book 2	Book 2	
	Focus: Discovering the	Focus: How the heating and		Focus: Planning, carrying	Focus: Finding out how	
	hidden secrets of the	combustion of substances		out, analysing and	energy is transferred during a	
	periodic table, whilst	creates an irreversible,		evaluating a series of	chemical reaction. Relating	
	learning about the alkali	chemical change and how		practicals around rates of reactions.	these transfers to real-life scenarios.	
	metals and halogens.	to represent these reactions in equations.		reactions.	scendros.	
	Outcome : Practical			Outcome : Practical	Outcome: End of Term	
	Assessment	Outcome : Practical		Assessment	Assessment	
		Assessment				
	Duration: 4 lessons	-		Duration: 5 lessons	Duration: 3 lessons	
		Duration: 4 lessons				





9	See Physic Overview	See Physics Overview	Topic: Process and Profit	Topic: Material Science	See Biology Overview	See Biology Overview
			Resources: PowerPoints, Practical activities, Handouts Focus: Exploring how humans can control and manipulate chemical reactions to produce a desired, and hopefully profitable outcome. Outcome: Practical Assessment and End of Term Assessment Duration: 12 lessons	Resources: PowerPoints, Practical activities, Handouts Focus: Investigating the chemistry behind how different material have different properties and how us humans can use these properties to our advantage. Outcome: Practical Assessment and End of Term Assessment Duration: 12 lessons		
9 ELC	See Biology Overview	 Topic: Elements, compounds & mixtures Resources: PowerPoints, Practical activities, Handouts, Chemistry Book Focus: Deepening understanding of elements, compounds and mixtures from particle theory to different materials and uses. And linking to the bonds formed in chemical compounds and relating to the properties of compounds formed. Outcome: Practical assessment on melting points of substances and Topic test. Duration: 13 lessons 	See Physics Overview	See Biology Overview	Topic: Chemistry in our world Resources: PowerPoints, Practical activities, Handouts, Chemistry Book Focus: Looking at reactions in the real world and the effects of temperature, concentration and surface area on rates of reactions. Studying the Earth's atmosphere, and human influences on the atmosphere. Outcome: Practical on safe drinking water and Topic test. Duration: 14 lessons	See Physics Overview



Chemistry Curriculum Overview



10	 Topic: Atomic Structure Review Resources: PowerPoints, Practical activities, Handouts, Chemistry Book. Focus: To develop knowledge of atoms, elements and mixtures linking to KS3 topics and deepen understanding of the periodic table and atomic structure. Outcome: End of Term Assessment. Duration: 9 lessons 	 Topic: Properties and Bonding Review Resources: PowerPoints, Practical activities, Handouts, Chemistry Book. Focus: Strengthen knowledge of compounds and deepening understanding of types of bonds formed between atoms, extending into how types of bonds affect the materials properties. Outcome: End of Term Assessment. Duration: 9-10 lessons (F/H/Sep) 	Topic: Chemical Changes Resources: PowerPoints, Practical activities, Handouts, Chemistry Book. Focus: To understand and deepen knowledge into the chemical changes in reactions. Understand the processes of oxidation and reduction by practising electrolysis. Utilising the pH scale to explain neutralisation reactions. Outcome: RA 11 Making Salts, RA 12 Titrations (Separate science only), RA 13 Electrolysis and End of Term Assessment. Duration: 17 - 19 lessons	Topic: Quantitative Chemistry Resources: PowerPoints, Practical activities, Handouts, Chemistry Book. Focus: Using mathematical techniques to calculate chemical quantities for use in experimental work. Outcome: End of Term Assessment. Duration: 8 - 10 lessons (F/H/Sep)	See Biology/Physics Overviews	See Physics Overview
11	See Biology Overview	Topic: Chemistry of the Atmosphere Resources: PowerPoints, Practical activities, Handouts, Chemistry Book Focus: Investigating the history of our atmosphere and how it has evolved over the life span of the earth and what has caused this. Outcome: End of Term Assessment Duration: 6 lessons (F/H/Sep)	(F/H/Sep) Topic : Using Resources Resources: PowerPoints, Practical activities, Handouts, Chemistry Book Focus : Discovering the value of materials, both naturally formed and produced by man. To appreciate why the handling of materials needs to be more carefully considered in the future, for waste management purposes. Outcome : End of Term Assessment, RA 18 Water purification and RA 17 Identifying Ions (Separate science only) Duration : 10 lessons (F/H/Sep)	Topic: Organic Chemistry Resources: PowerPoints, Practical activities, Handouts, Chemistry Book Focus: An introduction to organic chemistry. To find out how hydrocarbon chemicals are manipulated to form useful materials used in everyday life. Outcome: End of Term Assessment Duration: 9 lessons (F/H/Sep)	Topic: Rates of Reactions Resources: PowerPoints, Practical activities, Handouts, Chemistry Book Focus: An introduction to how rates of reactions are controlled and how humans can manipulate reactions to receive the wanted outcome. Outcome: End of Term Assessment Duration: 8 lessons (F/H/Sep)	Topic: Chemical Analysis Resources: PowerPoints, Practical activities, Handouts, Chemistry Book Focus: To learn about the chemical tests and procedures used by chemists, in laboratories, can identify elements and quantities. Outcome: Topic Test and RA 16 Chromatography. Duration: 8 lessons (F/H/Sep