

Curriculum Map: CHEMISTRY

Nothing Short of Remarkable
We are Ambitious • We are Committed • We are Proud



The 4 Big Ideas Underpinning an Understanding of Chemistry

	Matter is represented by the Particulate Model	Chemical reactions rearrange atoms and transfer energy	The Behaviour of Materials Links to Their Use	The Earth's Structure and its Atmosphere are Subject To Change
7	Particles	Chemical reactions	Periodic table	
8	Atoms elements and compounds		Material chemistry	Atmosphere
9	Separating Mixtures	Periodic table	Atomic Structure + Periodic Table	Geology project
			Structure and Bonding	
10	Quantitative Chemistry	Extracting Metals and reacting acids	Electrolysis	Extracting Metals and reacting acids
		Electrolysis	Organic Chemistry (separate content) *	
		Energy Changes		
		Rates of Reaction and Reversible Reactions		
	Rates of Reaction and Reversible Reactions	Organic reactions*		
11	Rates of Reaction and Reversible Reactions*		Using Resourcees	Chemistry of the Atmosphere

*Organic chemistry has extra lessons for separate science

	Year 7	Year 8	Year 9	Year 10	Year 11
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Term 1	<p><i>TOPIC/KNOWLEDGE</i></p> <ol style="list-style-type: none"> 1. Introductory unit 2. Particles 3. Periodic table 	<p><i>TOPIC/KNOWLEDGE</i></p> <ol style="list-style-type: none"> 1. Material Chemistry 2. Chemical reactions 	<p><i>TOPIC/KNOWLEDGE</i></p> <ol style="list-style-type: none"> 1. Atomic structure 	<p><i>TOPIC/KNOWLEDGE</i></p> <p>Chemistry</p> <ol style="list-style-type: none"> 1. Quantitative chemistry (combined and separate science science) 2. Extracting metals (Combined and separate science) 3. Energy changes 	<p><i>TOPIC/KNOWLEDGE</i></p> <p>Chemistry</p> <ol style="list-style-type: none"> 1. Organic chemistry (combined science) 2. Chemistry of the atmosphere (combined science) 3. Rates of reaction (separate science) 4. Using resources (combined science) 5. Chemical analysis (separate science)
Term 2	<p><i>TOPIC/KNOWLEDGE</i></p> <ol style="list-style-type: none"> 1. Atoms, elements and compounds 	<p><i>TOPIC/KNOWLEDGE</i></p> <ol style="list-style-type: none"> 1. Atmosphere 	<p><i>TOPIC/KNOWLEDGE</i></p> <ol style="list-style-type: none"> 1. Separating mixtures 	<p><i>TOPIC/KNOWLEDGE</i></p> <ol style="list-style-type: none"> 1. Electrolysis (separate Science) 2. Electrolysis (separate science) 3. Energy changes (separate science) 	<p><i>TOPIC/KNOWLEDGE</i></p> <ol style="list-style-type: none"> 1. Using resources (separate science)
Term 3	<p><i>TOPIC/KNOWLEDGE</i></p> <ol style="list-style-type: none"> 1. Acid and metal reactions 	<p><i>TOPIC/KNOWLEDGE</i></p> <ol style="list-style-type: none"> 1. Geology Project 	<p><i>TOPIC/KNOWLEDGE</i></p> <ol style="list-style-type: none"> 1. Structure and bonding - 	<p><i>TOPIC/KNOWLEDGE</i></p> <ol style="list-style-type: none"> 1. Electrolysis (combined Science) 2. Energy changes (combined Science) 3. Organic Chemistry (separate science) 4. Rates of reaction (combined Science) 	<p><i>TOPIC/KNOWLEDGE</i></p> <p>Paper 1 Chemistry</p> <p>Topics 1–5: Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry, Chemical changes; and Energy changes.</p> <p>Paper 2 Chemistry</p> <p>Topics 6–10: The rate and extent of chemical change; Organic chemistry; Chemical analysis, Chemistry of the atmosphere; and Using resources.</p>
Career Pathways					