

## Key Stage 4 Curriculum Overview for Combined Biology - 2021 to 2022

Year	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
<b>10</b>	Chapter 3: Infection & response	Chapter 4: Bioenergetics <i>- photosynthesis</i>	Chapter 4: Bioenergetics <i>- respiration</i>	Chapter 5: Homeostasis <i>- nervous response</i>	Chapter 5: Homeostasis <i>- hormonal response</i>	Mock exam preparation Begin Chapter 7
	<b>Assessments</b> <ul style="list-style-type: none"> <li>Mid chapter assessment for each chapter</li> <li>End of Chapter assessment based on past paper questions</li> <li>Required Practicals: Rates of photosynthesis; reaction times</li> </ul>					<b>Assessments</b> Internal Mock exam (Paper 1, Chapters 1-4 content)
<b>11</b>	Chapter 7: Ecology	Mock exam preparation  Chapter 6: Inheritance, variation and evolution - <i>Reproduction &amp; cell division</i>	Chapter 6: Inheritance, variation and evolution - <i>DNA, genes and inherited diseases</i>	Chapter 6: Inheritance, variation and evolution – <i>causes of variation, evolution, fossils, extinction and classification</i>	Exam Preparation – whole course revision	Exam season
	<b>Assessments</b> <ul style="list-style-type: none"> <li>Mid chapter assessment for each chapter</li> <li>End of Chapter assessment based on past paper questions</li> <li>Required Practical: Investigating populations</li> <li>Internal mock exam in December (Paper 1: Chapters 1-4)</li> </ul>					<b>Assessments</b> Paper 1: Chapters 1-4 1h15min  Paper 2: Chapters 5-7 1h15min

## Key Stage 4 Curriculum Overview for Combined Chemistry - 2021 to 2022

Year	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
<b>10</b>	Finish Chapter 3: Structure and bonding	Chapter 4: Chemical Calculations	Finish Chapter 4: Chemical Calculations Chapter 5: Chemical changes	Chapter 6: Electrolysis Chapter 7: Energy Changes	Finish Chapter 7: Energy Changes  Mock exam preparation: Revision, consolidation, and exam technique	Chapter 8: Rates of Reaction and Reversible Reactions
	<b>Assessments</b> <ul style="list-style-type: none"> <li>• End of chapter assessed homework</li> <li>• End of Chapter assessment based on past paper questions</li> <li>• Required Practicals: Making Salt, Electrolysis, Temperature Changes, Rates of Reaction</li> </ul>					<b>Assessments</b> Internal Mock exam (Paper 1, Chapters 1-7 content)
<b>11</b>	Chapter 9: Crude Oil and Fuels	Chapter 12: Chemical Analysis	Chapter 13: The Earth's Atmosphere	Chapter 14: The Earth's Resources	Revision, consolidation, and exam technique	Exam season
	<b>Assessments</b> <ul style="list-style-type: none"> <li>• End of chapter assessed homework</li> <li>• End of Chapter assessment based on past paper questions</li> <li>• Required Practicals: Chromatography, Water Purification</li> <li>• Internal mock exam Chapters 1-7</li> </ul>					<b>Assessments</b> Internal Mock exam: All chapters  GCSE Combined Science Exams Chemistry Paper 1 and 2

## Key Stage 4 Curriculum Overview for Combined Physics - 2021 to 2022

Year	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
<b>10</b>	Electricity.	Electricity.	The particle model of matter.	Radioactivity.	Forces.	Forces.
	<b>Assessments</b> End of unit assessments for: electricity, particle model of matter. <ul style="list-style-type: none"> <li>Required practical assessments.</li> </ul>					<b>Assessments</b> End of unit assessments for: radioactivity. Required practical assessments. End of year mock examination.
<b>11</b>	Forces.	Waves.	Waves.	Electromagnetism.	Exam preparation.	
	<b>Assessments</b> End of unit assessments for: Forces, waves, electromagnetism. Required practical assessments. Winter mock examination.					<b>Assessments</b> Some exam preparation work will be assessed.