



## Y11 Separate Science (Biology - AQA)

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics	<b>B7b Ecology</b> Biodiversity, trophic levels, transfer of biomass, pollution, global warming.	<b>B7b cont</b> Deforestation, maintaining biodiversity, food security, biotechnology.	Re-teaching of Paper 1 content inc. required practicals and maths skills.	Re-teaching of Paper 1 content inc. required practicals and maths skills.	Re-teaching of Paper 2 content inc. required practicals and maths skills.	
Assessme	End of topic assessment	Paper 1 PPE	Paper 2 PPE	Paper 2 PPE	GCSE Exam	GCSE Exam

Building on Prior Learning	Year 11 Biology builds on prior knowledge by spiralling the topics previously learnt in Year 9/10 such as cells, active transport, osmosis, diffusion and photosynthesis. GCSE content builds on the knowledge gained at KS3. Learning components at the start of lessons remind students of prior learning and point out links to previous topics.
Links with other subjects	Maths - 20% of the Science GCSE is numeracy based around fractions, standard form, and basic maths. Tabulation and analysis of data. English - Literacy link, scientific terminology, command words, comprehension, and reading and extended writing.
Extracurricular opportunities	STEM ambassador visits to engage students in science in the real world. Period 6 Science enhancement sessions.
A successful learner in this subject will demonstrate	The knowledge and recall of the above topics, along with the ability to explain, analyse and make links between different areas of Biology. They will have the ability to take ownership of their own learning needs. Practical skills will develop through the completion of required practicals throughout the year.
Impact on personal development	Science will help students to become logical thinkers and problem solvers with a better understanding of the world around them. Demonstrating resilience and the ability to consider moral and ethical implications of scientific developments

Ways to support student learning in this subject
<ul style="list-style-type: none"> <li>• Encourage the completion of homework.</li> <li>• Encourage discussion of science issues that arise in the news.</li> <li>• Discuss science lessons and their progress.</li> <li>• Encourage a positive attitude towards science.</li> <li>• Personalised learning checklists (PLC)</li> <li>• Encourage students to use Seneca Learning (<a href="https://www.senecalearning.com/">https://www.senecalearning.com/</a>) to consolidate knowledge and build on recall skills.</li> <li>• CGP science revision guides and workbooks are available to purchase throughout the year on parent pay.</li> </ul>



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