## **Trilogy: Biology GCSE Overview**



## **Year 10 Biology Content**

Year 11

This GCSE course is under constant review as we continually strive to improve and update our teaching resources and strategies, so the **order in which content is covered may be subject to change**.

Students will be given a variety of assessments each term to track their progress in literacy (RLITs), practical skills (RPs), application of knowledge through context questions (RCQs) and subject knowledge (EUTs). In addition they will be given a Mid-year exam (MYE) that covers the content of the year 9 course and the Autumn term units in year 10. The MYE assesses skills as well as subject knowledge and application.

**In June** students will be given **an exam** that assesses skills, subject knowledge and application of content covered in year 9 as well as year 10.

In November and March students will be given a mock exam that assesses skills, subject knowledge and application of content covered in years 9 & 10 as well as year 11. The first Mock exam is used to inform predicted grades for the summer.

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	Units	Assessment	Units	Assessment
Autumn	10.1 Cell Structure & Transport  Covering the differences between animal and plant cells and the process that govern transport in and out of cells.	End of Unit Test (unit 10.1)  Required Practical  – Microscopy  Required Practical  - Osmosis	<ul> <li>11.1 Biological Responses</li> <li>Includes:         <ul> <li>The human nervous system covering the principles of homeostasis, the reflex arcs and synaptic transmission.</li> </ul> </li> <li>Hormonal coordination         <ul> <li>Covering the principles of hormonal control and the endocrine system.</li> </ul> </li> </ul>	End of Unit Test (unit 11.1) Required Practical – Nervous system Literacy task - Diabetes
	10.2 Cell Division  Covering the process of cell division and the cell cycle. They will also study cell differentiation and stem cells.	End of Unit Test (unit 10.2) Context Question – Stem Cells		Y11 Mock Paper 1 (All Year 9 & 10 material)
Spring	10.3 Organisation and the Digestive System Covering the principle of organisation. They will focus on the digestive system and enzymes.	Required Practical - Food Tests Required Practical - Enzymes  End of Term Test (all Year 9 units, 10.1 & 10.2)	11.2 Reproduction  Covering asexual and sexual reproduction, the role of DNA in inheritance and genetic diagrams.	End of Unit Test (unit 11.2) Literacy Task – Meiosis vs mitosis
	10.4 Organising Animals and Plants  Covering the organisation of animals and plants. Including a detailed investigation of the heart and respiratory system as well as the vascular systems of plants.	End of Unit Test (unit 10.4) Literacy Task – Helping the heart	11.3 Variation Evolution and Genetics Covering variation & evolution by natural selection and survival of the fittest. They will also look at selective breeding and the process of genetic engineering.	End of Unit Test (11.3) Context Question – Genetic Engineering
	10.5 Preventing and Treating Disease  Covering the prevention of disease by vaccination and how the immune system works. Students will also cover the development and effectiveness of drugs and the processes of clinical trials.	End of Unit Test (unit 10.5) Literacy Task – Antibiotic Resistance	ısk –	Y11 Mock Paper 2 (11.1, 11.2 and Ecology from Year 9)
		resistance	11.4 Biodiversity  Covering the effects of humans on the planet covering such topics as biodiversity, deforestation, acid rain and habitat protection.	Literacy Task – Deforestation Context Question – Population
Summer	10.6 Photosynthesis  Covering the study of photosynthesis and the adaptations of leaves for efficient photosynthesis.	Required Practical – Photosynthesis  End of Year EXAM (all Year 9 units & Year 10 units covered to date)	Revision and Exam Practice	
	10.7 Respiration  Covering the study of respiration and giving examples of living processes that need the energy released from respiration such as metabolism.	End of Unit Test (unit 10.5&10.6 combined) Context Question – Growing Strawberries		