



Overview plans for academic year 2024-2025

Subject: Biology

Year group/cohort: 11

	Knowledge and Understanding	Knowledge and Understanding	Skills	Skills	Assessment	Subject specific literacy	Cross curricular links
	Components (Key concepts)	Composite (Bigger picture)	Components (Key concepts)	Composite (Bigger picture)	What is being assessed, how, and when?	Key Vocabulary	Including Personal Development and SMSC
Autumn Term 1	Introduce to the endocrine and Nervous Systems. Explore the conditions that must be maintained linking back to previous concepts, such as enzyme activity and diabetes. Understand and explain two mechanisms are vital to support students in developing their comparative skills between these	<u>B5 Homeostasis</u>	To plan and carry out an investigation into the effect of a factor on human reaction time	<u>Required Practical – Reaction Time</u>	Formative Assessment – Diabetes Formative Assessment – Contraception (WS)	Adrenaline Homeostasis Reflex actions Central nervous system Gland Hormone Effector Receptor Stimulus Contraception Progesterone vasoconstriction vasodilation Phototropism Gravitropism	

	<p>two responses. Understand why both systems are important and think about what would happen to a person if either system was to go wrong linking back to previous content and Health.</p> <p>To understand the structure and function of the eye and brain.</p>		<p>To investigate the effect of light or gravity on the growth of newly germinated seedlings.</p> <p>Eye dissection</p> <p>Brain Dissection</p>	<p><u>Required Practical – Plants</u></p> <p><u>Practical</u></p> <p><u>Practical</u></p>	<p>6 Mark Questions</p> <p>Formative Assessment – Plant Hormones</p> <p>Formative Assessment – The Eye WS</p> <p>End of Topic Assessment</p>		
Autumn Term 2	Investigate the implications of Asexual reproduction and the lack of variation it can lead to, understand and describe	<u>B6 Variation and evolution</u>		<u>Genetics</u>			Students get the opportunity to study the work of famous scientists Mendel, Lamarck and Darwin and how their discoveries

	scientifically skills to decide why Lamarck’s theory was rejected in favour of Darwin’s.				End of Topic Assessment		
Spring Term 1		<u>Preparation for GCSE Gap analysis and bridging activities</u>					
Spring Term 2		<u>Preparation for GCSE</u>					
Summer Term 1							
Summer Term 2							

Subject Information including exam board details:

AQA Biology 4461

Careers linked to this subject area:

Biologist

Ecologist

Geneticist

Marine Biologist

Health Care

Paramedic

Medical Careers

Enrichment Opportunities:

Science in the News : [Science News Explores | News from all fields of science for readers of any age \(snexplores.org\)](https://www.snexplores.org/)

Seneca Learning [Free Homework & Revision for A Level, GCSE, KS3 & KS2 \(senecalearning.com\)](https://www.senecalearning.com/)

Focus Educational log in – Interactive Required Practicals <https://www.focuselearning.co.uk/u/38146/gbhzCgxzycptBrCnafDAomEiyydluFigv>

BBC Bitesize [GCSE Biology \(Single Science\) - AQA - BBC Bitesize](https://www.bbc.com/bitesize/gcse/biology/single-science/aqa)