

Curriculum Overview

Subject: Biology

Year Group: Year 12



Students taking the A-Level Biology course, will explore the theories, principles, and intricacies inherent within living systems, serving not only as an educational journey but also as a foundation for nurturing a profound passion for Biology.

The course specification is thoughtfully structured into distinct topics, encompassing the key concepts essential to the discipline. Emphasis is placed on modelling and exam skills, with practical work integrated as a vital component of our approach. The required practical activities empower students to embed their skills and knowledge, ensuring they meet the stipulations of the Common Practical Assessment Criteria (CPAC).

Biological careers can be fascinating and rewarding. A Level biology prepares you to progress onto further or higher education, to follow courses in biology, biology- related fields, one of the other sciences or subjects or to enter employment where knowledge of biology would be useful.

TERM 1	TERM 2	TERM 3
KNOWLEDGE/SKILLS <ul style="list-style-type: none">• Biological molecules• Cells and Microscopy• Enzymes• Transport across membranes	KNOWLEDGE/SKILLS <ul style="list-style-type: none">• Immunity• Exchange• Digestion• DNA replication	KNOWLEDGE/SKILLS <ul style="list-style-type: none">• Mass transport• Genetic information, variation and relationships between organisms• Photosynthesis• Energy transfer and nutrient cycle

<p>Skills:</p> <ul style="list-style-type: none"> • AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures. • AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures. • AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures. 	<p>Skills:</p> <ul style="list-style-type: none"> • AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures. • AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures. • AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures. 	<p>Skills:</p> <ul style="list-style-type: none"> • AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures. • AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures. • AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures.
<p>KEY ASSESSMENTS</p> <p>Half term 1: Topic test: Biological molecules and Cells and microscopy</p> <p>Half term 2: Topic test: Enzymes and Transport across membranes</p>	<p>KEY ASSESSMENTS</p> <p>Half term 1: Topic test: Immunity and Exchange</p> <p>Half term 2: End of year 12 PPE's Term 1 and term 2 topics</p>	<p>KEY ASSESSMENTS</p> <p>Half term 1: Topic test: Mass Transport and Genetic information, variation and relationships between organisms</p> <p>Half term 2: End of year PPE paper 1</p>
<p>Extended reading suggestions and external resources:</p> <p>UpLearn https://uplearn.co.uk/ Save My Exams https://www.savemyexams.com/as/biology/aqa/16/ Quizlet https://quizlet.com/</p> <p>We actively encourage students to read, research and revise over learnt and sent content during their undirected study time, which is supported through our sixth form team.</p>		

Curriculum Overview

Subject: Biology

Year Group: Year 13



TERM 1	TERM 2	TERM 3
<p>KNOWLEDGE/SKILLS</p> <ul style="list-style-type: none"> • Nervous coordination • Muscles • Inheritance • The control of gene expression <p>Personalised Revision from Year 12 PPE</p>	<p>KNOWLEDGE/SKILLS</p> <ul style="list-style-type: none"> • Homeostasis • Population and evolution • Gene technology • The control of gene expression <p>Personalised Revision from December PPE</p>	<p>KNOWLEDGE/SKILLS</p> <p>Personalised Revision from Easter PPE</p> <p>Skills:</p> <ul style="list-style-type: none"> • AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures. • AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures. • AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures.

<p>Skills: -</p> <ul style="list-style-type: none"> • AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures. • AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures. • AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures. 	<p>Skills:</p> <ul style="list-style-type: none"> • AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures. • AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures. • AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures. 	
<p>KEY ASSESSMENTS</p> <p>Half term 1: Topic test: Nervous coordination and Muscles</p> <p>Half term 2: December PPE paper 1</p>	<p>KEY ASSESSMENTS</p> <p>Half term 1: Topic test: Homeostasis and Population and evolution</p> <p>Half term 2: Easter PPE paper 2</p>	<p>KEY ASSESSMENTS</p> <p>A level Exam</p>
<p>Extended reading suggestions and external resources:</p> <p>UpLearn https://uplearn.co.uk/ Save My Exams https://www.savemyexams.com/as/biology/aqa/16/ Quizlet https://quizlet.com/</p> <p>We actively encourage students to read, research and revise over learnt and sent content during their undirected study time, which is supported through our sixth form team.</p>		