



Year 11 Biology curriculum overview for 2024 – 2025 (Following 2022 curriculum model)

	Key content (knowledge)	Key skills	Assessments	Challenge and enrichment
Autumn half term 1	<p>Control of body temperature. Function of the kidneys.</p> <p>Meiosis, genomes, DNA structure and protein synthesis. Gene expression and mutation.</p>	<p>Synoptic links with enzymes and negative feedback loops.</p>	<p>Test 1: Nervous system and homeostasis, plus adaptations and interdependence (from end of year 10).</p>	<p>Cambridge Biology Challenge, run by Homerton College.</p> <p>Role of Rosalind Franklin and others in discovery of DNA.</p>
Autumn half term 2	<p>Inheritance.</p> <p>Evolution by natural selection, evidence for evolution.</p>	<p>Using Punnett square diagrams and expressing ratio in relation to inheritance.</p> <p>Follow up from exam feedback.</p> <p>Ethics of cloning.</p>	<p>MOCK EXAM 1</p>	<p>Wider reading – Biological Sciences review article “Evolution in the twenty-first century”.</p>

Spring half term 1	Development of antibiotic resistance, speciation, cloning. Selective breeding and genetic engineering. Classification.	Data analysis in relation to trends of antibiotic resistance.	Test 2 (mini test of evolution and speciation).	Microbiology in Schools Advisory Committee (MiSAC) annual poster competition.
Spring half term 2	Population change, pollution, deforestation, climate change impact, maintaining biodiversity.	Follow up from exam feedback.	MOCK EXAM 2	Wider reading – Biological Sciences review article “The future of food”.
Summer half term 1	Food security, biomass transfer, sustainable food production.		GCSE public exams begin.	
Summer half term 2				Royal Society of Biology Nancy Rothwell Prize biological drawing competition. Bridging work for A level Biology.