



Curriculum Plans – Sixth Form Biology

Please find below a detailed outline of the curriculum covered in Biology through Year 12 in Sixth Form.

Year 12

	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7
	<p>Unit 1 Cell Structure</p> <ul style="list-style-type: none"> • Cell Biology • Plant and Animal cells • Differences • Microscopy • Ultrastructure <p>Unit 2 Biological Molecules</p> <ul style="list-style-type: none"> • Building Blocks • Monomers, polymers, macro - molecules • Carbohydrate • Lipid • Protein • Water <p>Unit 3 Enzymes</p> <ul style="list-style-type: none"> • Mode • Factors • Inhibitors • Affinity • Immobilization 	<p>Unit 4 Cell Membrane</p> <ul style="list-style-type: none"> • Phospholipids • Structure of Membranes • Cell signaling • Movement of substances <p>Unit 5 Mitotic Cell Cycle</p> <ul style="list-style-type: none"> • Chromosomes • Mitosis • Telomeres • Stem cells • Cancer 	<p>Unit 6 Nucleic Acid</p> <ul style="list-style-type: none"> • DNA & RNA • DNA replication • Genes and mutation • DNA, RNA and protein synthesis <p>Unit 7 Transport in Plants</p> <ul style="list-style-type: none"> • Transport needs • Phloem & xylem • Structure of stems, roots and leaves 	<p>Unit 8 Transport in Mammals</p> <ul style="list-style-type: none"> • Transport in animals • Blood • Heart • Control of heartbeat <p>Unit 9 Gas Exchange</p> <ul style="list-style-type: none"> • Lungs • Gas exchange • Smoking • Lung diseases 	<p>Unit 10 Infectious Diseases</p> <ul style="list-style-type: none"> • Cholera • Malaria • Tuberculosis • AIDS • Measles • Antibiotics <p>Unit 11 Immunity</p> <ul style="list-style-type: none"> • Immune system • Active and passive immunity • Autoimmune diseases <p>Review</p> <p>Revision</p> <p>Past Papers</p>	<p>Revision Lessons</p>	<p>Revision Lessons</p>
Assessment	End of Unit Assessment October 5 th Tuesday	End of Unit Assessment November 2 nd Tuesday	End of Unit Assessment December 14 th Tuesday	End of Unit Assessment	End of Unit Assessment Mock Exam	External Cambridge AS Level Exam	