



A Level Biology- Curriculum Overview

Year 12

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	<p>Teacher 1 (including consolidation/revision of linked GCSE content):</p> <p>3.1.1. Monomers and Polymers 3.1.2. Carbohydrates 3.1.3. Lipids 3.1.4.1 Proteins - structure 3.1.3. Digestion and absorption 3.1.4.2. Proteins – enzymes RP1 Factors affecting enzymes</p> <p>Teacher 2 (including consolidation/revision of linked GCSE content):</p> <p>3.2.1. Cell structure 3.2.2. All cells arise from other cells 3.2.3. Transport across cell membranes RP 2 Root squash RP 3 Water potential RP4 Permeability of cell membranes</p>	<p>Teacher 1</p> <p>3.1.5. Nucleic acids 3.1.6. ATP 3.4.1. DNA, genes and chromosomes 3.4.2. DNA and protein synthesis</p> <p>Teacher 2</p> <p>3.2.4. Cell recognition and the immune system 3.3.1. Surface area to volume ratio</p>	<p>Teacher 1:</p> <p>3.4.3. Genetic diversity / mutations/ meiosis 3.4.4. Genetic diversity / adaptation diversity RP 6 investigating antimicrobial substances</p> <p>Teacher 2:</p> <p>3.3.2. Gas exchange 3.1.7. Water 3.1.8. Inorganic ions RP 5 Gas exchange dissection</p>	<p>Teacher 1:</p> <p>3.4.7. Investigating diversity</p> <p>Teacher 2:</p> <p>3.3.4. Mass transport 3.4.5. Species and taxonomy 3.4.6. Biodiversity within the community</p>	<p>Mock examinations Required practical ‘catch up’ (if necessary) Revision of all year 1 content. Essay practice Maths skills consolidation Exam preparation</p>	<p>Teacher 1:</p> <p>7.2 Populations 7.4 Populations in ecosystems STAR HWK populations 5.4 Nutrient cycles Required practical 12 (if possible)</p> <p>Teacher 2:</p> <p>5.1 Photosynthesis 5.2 Respiration Required practicals 7,8 and 9</p>
Assessment & End Points:	<p>STAR HWK Starch and cellulose STAR HWK Enzymes STAR TEST Biological molecules STAR HWK Microscopes STAR HWK Transport STAR TEST Cell structure</p>	<p>STAR HWK Nucleic acids STAR TEST DNA STAR HWK Immune system STAR TEST Immune system Imock exam on above content</p>	<p>STAR HWK Meiosis STAR HWK Genetic diversity STAR TEST Genetic STAR HWK Gas exchange STAR HWK Water and ions STAR TEST Gas exchange</p>	<p>STAR HWK Investigating diversity STAR TEST investigating diversity STAR HWK Mass transport STAR TEST species and taxonomy</p>		<p>STAR TEST Nutrient HWK STAR HWK photosynthesis STAR TEST photosynthesis and respiration</p>



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Year 13

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	<p>Teacher 1: consolidation/revision 7.2 Populations 7.4 Populations in ecosystems 5.4 Nutrient cycles Required practical 12</p> <p>Teacher 2: 5.1 Photosynthesis 5.2 Respiration and respiration Required practicals 7,9</p>	<p>Teacher 1: 7.1 Inheritance 7.3 Evolution</p> <p>Teacher 2: 5.3 Energy and ecosystem 1.2 Nerve impulse 6.2.2 Synaptic transmission</p>	<p>Teacher 1: 8.1 Mutations 8.2.1 Stem cells 8.2.2 Regulation of transcription and translation Content sequence –</p> <p>Teacher 2: 6.1.2 Receptors 6.3 Muscle STAR HWK muscle STAR TEST Muscle 6.1.3. Control of heart rate</p>	<p>Teacher 1: 8.2.3 Gene Expression and cancer 8.3 Genome project 8.4 Gene technology</p> <p>Teacher 2: 6.1.1 Survival and Response Required practical 10 6.4.2 Blood Glucose 6.4.3 Blood Water Potential Required practicals 10 and 11</p>	<p>Mock examinations Required practical 'catch up' (if necessary) Revision of all year 1 and 2 content. Essay practice Maths skills consolidation Exam preparation</p>	<p>Mock examinations Required practical 'catch up' (if necessary) Revision of all year 1 and 2 content. Essay practice Maths skills consolidation Exam preparation</p>
Assessment & End Points:	<p>STAR HWK populations STAR TEST Nutrient HWK STAR HWK photosynthesis STAR TEST photosynthesis</p>	<p>STAR HWK inheritance STAR TEST evolution STAR HWK energy and ecosystems STAR TEST Nerves</p>	<p>STAR HWK mutations STAR HWK Regulation of transcription STAR TEST Regulation of transcription and translation STAR HWK control of Heart rate</p>	<p>STAR HWK gene expression STAR HWK gene STAR TEST gene technology STAR HWK survival and response STAR HWK Blood water potential STAR test Homeostasis</p>		