



# A Level Biology- Curriculum Overview

## Year 12

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	<p><b>Teacher 1</b> (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><b>Teacher 2</b> (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><b>Teacher 1</b></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><b>Teacher 2</b></p> <p>3.2.4. Cell recognition and the immune system 3.3.1. Surface area to volume ratio</p>	<p><b>Teacher 1:</b></p> <p>3.4.3. Genetic diversity / mutations/ meiosis 3.4.4. Genetic diversity / adaptation diversity RP 6 investigating antimicrobial substances</p> <p><b>Teacher 2:</b></p> <p>3.3.2. Gas exchange 3.1.7. Water 3.1.8. Inorganic ions RP 5 Gas exchange dissection</p>	<p><b>Teacher 1:</b></p> <p>3.4.7. Investigating diversity</p> <p><b>Teacher 2:</b></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><b>Teacher 1:</b></p> <p>7.2 Populations 7.4 Populations in ecosystems STAR HWK populations 5.4 Nutrient cycles Required practical 12 (if possible)</p> <p><b>Teacher 2:</b></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:	<b>Teacher 1:</b> consolidation/revision 7.2 Populations 7.4 Populations in ecosystems 5.4 Nutrient cycles Required practical 12 <b>Teacher 2:</b> 5.1 Photosynthesis 5.2 Respiration and respiration Required practicals 7,9	<b>Teacher 1:</b> 7.1 Inheritance 7.3 Evolution <b>Teacher 2:</b> 5.3 Energy and ecosystem 1.2 Nerve impulse 6.2.2 Synaptic transmission	<b>Teacher 1:</b> 8.1 Mutations 8.2.1 Stem cells 8.2.2 Regulation of transcription and translation Content sequence – <b>Teacher 2:</b> 6.1.2 Receptors 6.3 Muscle STAR HWK muscle STAR TEST Muscle 6.1.3. Control of heart rate	<b>Teacher 1:</b> 8.2.3 Gene Expression and cancer 8.3 Genome project 8.4 Gene technology technology <b>Teacher 2:</b> 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	Mock examinations Required practical 'catch up' (if necessary) Revision of all year 1 and 2 content. Essay practice Maths skills consolidation Exam preparation	Mock examinations Required practical 'catch up' (if necessary) Revision of all year 1 and 2 content. Essay practice Maths skills consolidation Exam preparation
Assessment & End Points:	STAR HWK populations STAR TEST Nutrient HWK STAR HWK photosynthesis STAR TEST photosynthesis	STAR HWK inheritance STAR TEST evolution STAR HWK energy and ecosystems STAR TEST Nerves	STAR HWK mutations STAR HWK Regulation of transcription STAR TEST Regulation of transcription and translation STAR HWK control of Heart rate	STAR HWK gene expression STAR HWK gene STAR TEST gene technology STAR HWK survival and response STAR HWK Blood water potential STAR test Homeostasis		