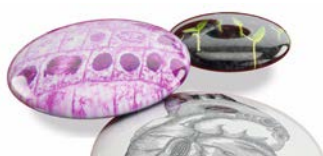


Switching to OCR A from OCR Human Biology

The content within the [OCR Biology A specification](#) covers the 'Big Ideas' of biology and will be very familiar. We've laid it out in a logical progression to support co-teaching the AS level and teaching the A level in a linear way.

OCR Biology A	OCR Human Biology
<p>Module 1: Practical skills</p> <p>Planning, implementing, analysis and evaluation</p> <p>Plus all the skills to be covered in the Practical Endorsement</p>	<p>Unit F223 (controlled assessment tasks)</p> <p>Unit F226 (Extended Investigation)</p>
<p>Module 2: Foundations in Biology</p> <ul style="list-style-type: none"> • Cell structure • Biological molecules • Nucleotides and nucleic acids • Enzymes • Biological membranes • Cell division, diversity and organisation 	<p>F221 Module 1: Molecules and Blood</p> <ul style="list-style-type: none"> • The blood • Molecules • Preventing blood loss • Blood for medical use <p>F222 Module 1: Growth Development and Disease</p> <ul style="list-style-type: none"> • Mitosis as Part of the Cell Cycle <p>F222 Module 2: The Developing Individual</p> <ul style="list-style-type: none"> • The Biological Basis of Individuality and the Monitoring of Fetal Development
<p>Module 3: Exchange and Transport</p> <ul style="list-style-type: none"> • Exchange surfaces • Transport in animals • Transport in plants 	<p>F221 Module 2: Circulatory and Gas Exchange Systems</p> <ul style="list-style-type: none"> • The Heart and Monitoring Heart Function • The Circulatory System • The Lungs and Investigating Lung Function <p>F224 Module 1: Energy and Reproduction</p> <ul style="list-style-type: none"> • Athletic Performance



OCR Biology A	OCR Human Biology
<p>Module 4: Biodiversity, evolution and disease</p> <ul style="list-style-type: none"> • Communicable diseases, disease prevention and the immune system • Biodiversity • Classification and evolution 	<p>F222 Module 3: Infectious Disease</p> <ul style="list-style-type: none"> • Controlling the Spread of Infectious disease • Acquiring Immunity <p>F224 Module 2: Human Reproduction and Populations</p> <ul style="list-style-type: none"> • Food, Farming and Populations – Human Impact on the Environment
<p>Module 5: Communication, homeostasis and energy</p> <ul style="list-style-type: none"> • Communication and homeostasis • Excretion • Neuronal communication • Hormonal communication • Plant and animal responses • Photosynthesis • Respiration 	<p>F224 Module 1: Energy and Respiration</p> <ul style="list-style-type: none"> • Respiration • Athletic Performance <p>F224 Module 2: Human Reproduction and Populations</p> <ul style="list-style-type: none"> • Food, Farming and Populations – Producing Food <p>F225 Module 2: The Nervous System</p> <ul style="list-style-type: none"> • Treating Central Nervous System Injuries <p>F225 Module 3: Homeostasis</p> <ul style="list-style-type: none"> • The Importance of Homeostasis • Managing Type 1 and Type 2 Diabetes
<p>Module 6: Genetics, evolution and ecosystems</p> <ul style="list-style-type: none"> • Cellular control • Patterns of inheritance • Manipulating genomes • Cloning and biotechnology • Ecosystems • Populations and sustainability 	<p>F225 Module 1: Genetics in the Twenty First Century</p> <ul style="list-style-type: none"> • Inheritance of Human Genetic Disease • Genetic Techniques • Transplant Surgery and Cloning
<p>Appendix 5d: Mathematical requirements</p> <ul style="list-style-type: none"> • Arithmetic and numerical computation • Handling data • Algebra • Graphs 	<p>Appendix E: Mathematical requirements</p> <ul style="list-style-type: none"> • Arithmetic and numerical computation • Handling data • Algebra • Graphs

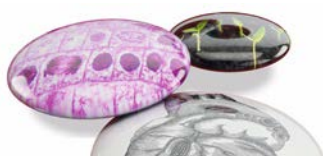


OCR Biology A	OCR Human Biology
<ul style="list-style-type: none">• Geometry and trigonometry <p>Note: although the topic areas are very similar the details of what is required differ. Please read appendix 5d in the Biology A specification carefully to ensure your students are fully prepared for their assessments.</p>	



Assessment

OCR Biology A	OCR Human Biology
<p>AS Paper 1: Breadth in Biology, Modules 1-4</p> <p>50% of AS</p> <p>Written paper 1hr 30 minutes</p> <p>70 marks</p> <p>Section A multiple choice questions, 20 marks. Section B short structured questions, covering problem solving, calculations, practical and theory, 50 marks.</p>	<p>AS Unit F221: Molecules, Blood and Gas Exchange</p> <p>30% of AS</p> <p>Written paper 1 hour</p> <p>60 marks</p>
<p>AS Paper 2: Depth in Biology, Modules 1-4</p> <p>50% of AS</p> <p>Written paper 1hr 30 minutes</p> <p>70 marks</p> <p>Short structured questions and extended response questions, problem solving, calculations, practical and theory.</p>	<p>AS Unit F222: Growth, Development and Disease</p> <p>50% of AS</p> <p>Written paper 1 hour 45 minutes</p> <p>100 marks</p> <p>Advance notice element</p>
	<p>AS Unit F223: Practical Skills in Human Biology</p> <p>20% of AS</p> <p>Controlled Assessment</p> <p>40 marks</p>
<p>A Level Paper 1: Biological processes, Modules 1, 2, 3 & 5</p> <p>37% of A level</p> <p>Written paper 2 hours 15 minutes</p> <p>100 marks</p> <p>Section A multiple choice questions, 15 marks. Section B short structured questions, and extended response questions, problem solving, calculations, practical and theory 85 marks.</p>	<p>A2 Unit F224: Energy, Reproduction and Populations</p> <p>15% of A level</p> <p>Written paper 1 hour</p> <p>60 marks</p>



OCR Biology A	OCR Human Biology
<p>A Level Paper 2: Biological diversity, Modules 1, 2, 4 & 6</p> <p>37% of A level</p> <p>Written paper 2 hours 15 minutes</p> <p>100 marks</p> <p>Section A multiple choice questions, 15 marks.</p> <p>Section B short structured questions and extended response questions, problem solving, calculations, practical and theory 85 marks.</p>	<p>A2 Unit F225: Genetics, Control and Ageing</p> <p>25% of A level</p> <p>Written paper 1 hour 45 minutes</p> <p>100 marks</p>
<p>A Level Paper 3: Unified Biology, Modules 1-6</p> <p>26% of A level</p> <p>Written paper 1 hour 30 minutes</p> <p>70 marks</p> <p>Short structured questions and extended response questions, problem solving, calculations, practical and theory.</p>	<p>A2 Unit F226: Extended Investigation in Human Biology</p> <p>10% of A level</p> <p>Controlled Assessment</p> <p>40 marks</p>

