

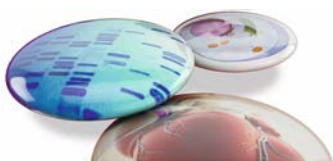
## Switching to OCR B from AQA Human Biology

The content within the [OCR Biology B specification](#) covers the ‘Big Ideas’ of biology in engaging contexts. The logical progression supports AS level co-teaching and linear A level.

OCR Biology B	AQA Human Biology
<p><b>Module 1: Practical skills</b></p> <p>Planning, implementing, analysis and evaluation</p> <p>Plus all the skills to be covered in the Practical Endorsement</p>	<p>Required investigative and practical skills are described at the end of each unit in the specification.</p> <p>In addition Units 3 and 6 specifically describe the requirements of the Practical Skills Assessments</p>
<p><b>Module 2: Cells, chemicals for life, transport and gas exchange</b></p> <ul style="list-style-type: none"> <li>• Cells and microscopy</li> <li>• Water and its importance in plants and animals</li> <li>• Proteins and enzymes</li> <li>• Nucleic acids</li> <li>• The heart and monitoring heart function</li> <li>• Transport systems in mammals</li> <li>• Transport systems in plants</li> <li>• Gas exchange in mammals and plants</li> </ul>	<p><b>Unit 1 The body and its diseases</b></p> <ul style="list-style-type: none"> <li>• We are what we eat</li> <li>• Enzymes</li> <li>• Cystic fibrosis</li> <li>• Diseases linked to lifestyle – The heart</li> </ul> <p><b>Unit 2 Humans – their origins and adaptations</b></p> <ul style="list-style-type: none"> <li>• The information of life</li> </ul>
<p><b>Module 3: Cell division, development and disease control</b></p> <ul style="list-style-type: none"> <li>• The developing cell</li> <li>• The developing individual</li> <li>• The development of species</li> <li>• Pathogenic microorganisms</li> <li>• The immune system</li> <li>• Controlling communicable disease</li> <li>• The cellular basis of cancer and treatment</li> <li>• Respiratory diseases and treatment</li> </ul>	<p><b>Unit 1 The body and its diseases</b></p> <ul style="list-style-type: none"> <li>• Microorganisms</li> <li>• How the body fights infectious disease</li> </ul> <p><b>Unit 2 Humans – their origins and adaptations</b></p> <ul style="list-style-type: none"> <li>• Cell division</li> <li>• Where we fit in the world</li> <li>• Adaptations to exercise</li> <li>• The Future of Infectious Disease Control</li> </ul>



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<p><b>Module 4: Energy, reproduction and populations</b></p> <ul style="list-style-type: none"> <li>Cellular respiration</li> <li>Metabolism and exercise</li> <li>Fertility and assisted reproduction</li> <li>Effects of ageing on reproduction</li> <li>Photosynthesis, food production and management of the environment</li> <li>The impact of population increase</li> <li>Plant reproduction</li> </ul>	<p><b>Unit 2 Humans – their origins and adaptations</b></p> <ul style="list-style-type: none"> <li>We have changed our environment</li> </ul> <p><b>Unit 4 Bodies and cells in and out of control</b></p> <ul style="list-style-type: none"> <li>IVF</li> <li>Fight or flight</li> <li>Hypothermia and diabetes</li> </ul> <p><b>Unit 5 The air we breathe, the water we drink, the food we eat</b></p> <ul style="list-style-type: none"> <li>Human activities can damage ecosystems and create new ones</li> <li>Plants can reduce the impact of the use of fossil fuels on climate change</li> </ul>
<p><b>Module 5: Genetics, control and homeostasis</b></p> <ul style="list-style-type: none"> <li>Patterns of inheritance</li> <li>Population genetics and epigenetics</li> <li>Gene technologies</li> <li>The nervous system</li> <li>Monitoring visual function</li> <li>Effects of ageing on nervous system</li> <li>Homeostasis</li> <li>Hormonal control of blood glucose</li> <li>Kidney function and malfunction</li> </ul>	<p><b>Unit 4 Bodies and cells in and out of control</b></p> <ul style="list-style-type: none"> <li>Genetic variation and inheritance</li> <li>New genes for old</li> <li>Drugs can affect how we perceive the world around us</li> <li>Hypothermia and diabetes</li> </ul> <p><b>Unit 5 The air we breathe, the water we drink, the food we eat</b></p> <ul style="list-style-type: none"> <li>Human impacts on evolution</li> <li>People change communities</li> </ul>
<p><b>Appendix 5d: Mathematical requirements</b></p> <ul style="list-style-type: none"> <li>Arithmetic and numerical computation</li> <li>Handling data</li> <li>Algebra</li> <li>Graphs</li> <li>Geometry and trigonometry</li> </ul>	<p><b>Section 3.9: Mathematical requirements</b></p> <ul style="list-style-type: none"> <li>Arithmetic and computation</li> <li>Handling data</li> <li>Algebra</li> <li>Graphs</li> <li>Geometry and trigonometry</li> </ul>
<p><b>Note: although the topic areas are very similar the details of what is required differ. Please read appendix 5d in the Biology B specification carefully to ensure your students are fully prepared for their assessments.</b></p>	



## Assessment

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<p><b>AS Paper 1: Foundations of Biology</b> <b>Modules 1-3</b> 50% of AS Written paper 1 hour 30 minutes 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><b>AS Unit 1: The body and its diseases</b> 40% of AS Written paper 1 hour 30 minutes 80 marks</p> <p>7 - 10 short answer questions plus 1 longer question involving comprehension/case study.</p>
<p><b>AS Paper 2: Biology in Depth, Modules 1-3</b> 50% of AS Written paper 1 hour 30 minutes 70 marks</p> <p>Short structured questions and extended response questions, problem solving, calculations, practical and theory.</p>	<p><b>AS Unit 2: Humans – their origins and adaptations</b> 40% of AS Written paper 1 hour 30 minutes 80 marks</p> <p>7 - 10 short answer questions plus 1 longer question involving comprehension/case study.</p>
	<p><b>AS Unit 3: Investigative and practical skills</b> 20% of AS Controlled assessment 50 marks</p>
<p><b>A Level Paper 1: Fundamentals of Biology</b> <b>Modules 1-5</b> 41% of A level Written paper 2 hours 15 minutes 110 marks</p> <p>Section A multiple choice questions, 30 marks. Section B short structured questions,</p>	<p><b>A2 Unit 4: Bodies and cells in and out of control</b> 20% of A Level Written paper 2 hours 90 marks</p> <p>9 - 11 short answer questions plus 1 longer question involving methodology and data</p>



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and extended response questions, problem solving, calculations, practical and theory 80 marks.	interpretation.
<p><b>A Level Paper 2: Scientific Literacy in Biology Modules 1-5</b> 37% of A level Written paper 2 hours 15 minutes 100 marks</p> <p>Advance notice article (underpins 20-25 marks). Short structured questions and extended response questions, problem solving, calculations, practical and theory.</p>	<p><b>A2 Unit 5: Bodies and cells in and out of control</b> 20% of A Level Written paper 2 hours 90 marks</p> <p>7 - 9 short answer questions plus 1 longer question with a choice of 2 essay topics.</p>
<p><b>A Level Paper 3: Practical Skills in Biology Modules 1–5</b> 22% of A level Written paper 1 hour 30 minutes 60 marks</p> <p>Short structured questions and extended response questions, problem solving, calculations, practical and theory.</p>	<p><b>A2 Unit 6: Investigative and practical skills</b> 10% of A Level Controlled assessment 50 marks</p>

