

Switching to OCR B from Eduqas

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	Eduqas Biology A Level (AS topics highlighted)
<p>Module 1: Practical skills Planning, implementing, analysis and evaluation Plus all the skills to be covered in the Practical Endorsement</p>	<p>The same practical skills, as mandated by the DfE, apply to the Eduqas qualification</p>
<p>Module 2: Cells, chemicals for life, transport and gas exchange</p> <ul style="list-style-type: none"> • Cells and microscopy • Water and its importance in plants and animals • Proteins and enzymes • Nucleic acids • The heart and monitoring heart function • Transport systems in mammals • Transport systems in plants • Gas exchange in mammals and plants 	<p>Core Concepts</p> <ul style="list-style-type: none"> • Chemical elements are joined together to form biological compounds • Cell structure and organisation • Cell membranes and transport • Biological reactions are regulated by enzymes <p>Nucleic acids and their functions</p>
<p>Module 3: Cell division, development and disease control</p> <ul style="list-style-type: none"> • The developing cell • The developing individual • The development of species • Pathogenic microorganisms • The immune system • Controlling communicable disease • The cellular basis of cancer and treatment • Respiratory diseases and treatment 	<p>Component 1: Energy for Life</p> <ul style="list-style-type: none"> • Importance of ATP • Photosynthesis • Respiration • Microbiology • Population size and ecosystems <p>Human impact on the environment</p>



OCR Biology B	Eduqas Biology A Level (AS topics highlighted)
<p>Module 4: Energy, reproduction and populations</p> <ul style="list-style-type: none"> Cellular respiration Metabolism and exercise Fertility and assisted reproduction Effects of ageing on reproduction Photosynthesis, food production and management of the environment The impact of population increase Plant reproduction 	<p>Component 2: Continuity of Life</p> <ul style="list-style-type: none"> All organisms are related through their evolutionary history Genetic information is copied and passed on to daughter cells Sexual reproduction in humans Sexual reproduction in plants Inheritance Variation and evolution Application of reproduction and genetics
<p>Module 5: Genetics, control and homeostasis</p> <ul style="list-style-type: none"> Patterns of inheritance Population genetics and epigenetics Gene technologies The nervous system Monitoring visual function Effects of ageing on nervous system Homeostasis Hormonal control of blood glucose Kidney function and malfunction 	<p>Component 3: Requirements for Life</p> <ul style="list-style-type: none"> Adaptations for gas exchange Adaptations for transport Adaptations for nutrition Homeostasis and the kidney The nervous system <p>Choice of one option from three:</p> <ul style="list-style-type: none"> Immunology and disease Human musculoskeletal anatomy Neurobiology and behaviour
<p>Appendix 5d: Mathematical requirements</p> <ul style="list-style-type: none"> Arithmetic and numerical computation Handling data Algebra Graphs Geometry and trigonometry 	<p>Appendix C: Mathematical requirements and exemplification</p> <ul style="list-style-type: none"> Arithmetic and numerical computation Handling data Algebra Graphs Geometry and trigonometry



Assessment

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<p>AS Paper 1: Foundations of Biology Modules 1-3 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>AS Paper 1: Core concepts and Genetic information 50% of AS Written paper 1 hour 30 minutes 75 marks</p> <p>Short and longer structured questions.</p>
<p>AS Paper 2: Biology in Depth, Modules 1-3 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>AS Paper 2:</p> <ul style="list-style-type: none"> • All organisms are related through their evolutionary history • Adaptations for gas exchange • Adaptations for transport • Adaptations for nutrition <p>50% of AS Written paper 1 hour 30 minutes 75 marks</p> <p>Short and longer structured questions..</p>
<p>A Level Paper 1: Fundamentals of Biology Modules 1-5 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, and extended response questions, problem solving, calculations, practical and theory 80 marks.</p>	<p>A Level Paper 1: Component 1 and core concepts 33% of A level Written paper 2 hours 100 marks</p> <p>Short structured questions and extended response questions, problem solving, calculations, practical and theory.</p>
<p>A Level Paper 2: Scientific Literacy in Biology Modules 1-5 37% of A level</p>	<p>A Level Paper 2: Component 2 and core concepts 33% of A level</p>



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<p>Written paper 2 hours 15 minutes 100 marks Advance notice article (underpins 20-25 marks). Short structured questions and extended response questions, problem solving, calculations, practical and theory.</p>	<p>Written paper 2 hours 100 marks Short structured questions and extended response questions, problem solving, calculations, practical and theory.</p>
<p>A Level Paper 3: Practical Skills in Biology Modules 1–5 22% of A level Written paper 1 hour 30 minutes 60 marks Short structured questions and extended response questions, problem solving, calculations, practical and theory.</p>	<p>A Level Paper 3: Component 3 (including optional topics) and core concepts 33% of A level Written paper 2 hours 100 marks Short structured questions and extended response questions, problem solving, calculations, practical and theory. Section A: 80 marks Section B: 20 marks in each of 3 options</p>

