

> **STEP UP** TO OXFORDAQA INTERNATIONAL GCSE BIOLOGY

Mapping of Activate from Oxford University Press to
OxfordAQA International GCSE Biology (9201)



THE BRIDGE TO INTERNATIONAL GCSE BIOLOGY (9201)

In this document, we show how Activate from Oxford University Press prepares your Lower Secondary age 11–14 students for the step up to OxfordAQA International GCSE Biology (9201), whether they are taking the course over two or three years.

The following mapping grid shows which areas of Activate provide the prior knowledge and skills for each topic in the OxfordAQA International GCSE Biology (9201) specification. Any content that does not require prior learning before students start their International GCSE study is clearly indicated.



› Mapping of Activate to OxfordAQA International GCSE Biology (9201)

OxfordAQA International GCSE Biology (9201)		Mapping of content from Activate Key Stage 3 Science		
Topic area	Subtopic area	Activate 1 (ages 11-12) chapters and sections	Activate 2 (ages 12-13) chapters and sections	Activate 3 (ages 13-14) chapters and sections
ORGANISATION	› Cell structure	Cells 1.1 Observing cells 1.2 Plant and animal cells 1.3 Specialised cells 1.4 Movement of substances 1.5 Unicellular organisms		
	› Principles of organisation	Cells 1.5 Unicellular organisms Structure and function of body systems 2.1 Levels of organisation		
	› Animal tissues, organs and organ systems	Structure and function of body systems 2.1 Levels of organisation	Health and lifestyle 1.4 Digestive system	
	› Plant tissues, organs and systems	Cells 1.2 Plant and animal cells	Ecosystem processes 2.2 Leaves	
	› Transport in cells.	Cells 1.4 Movement of substances 1.5 Unicellular organisms		
BIOENERGETICS	› Photosynthesis		Ecosystem processes 2.1 Photosynthesis	
	› Exchange and transport in plants	Cells 1.2 Plant and animal cells 1.3 Specialised cells	Ecosystem processes 2.1 Photosynthesis 2.2 Leaves	
	› Circulation			Detection 3.4 Blood typing
	› Digestion		Health and lifestyle 1.1 Nutrients 1.2 Food tests 1.4 Digestive system 1.5 Bacteria and enzymes in digestion	New technology 1.8 Enzymes in industry
	› Breathing	Structure and function of body systems 2.3 Breathing		
	› Respiration	Structure and function of body systems 2.6 Movement: muscles	Ecosystem processes 2.5 Aerobic respiration 2.6 Anaerobic respiration	
ECOLOGY	› Energy transferred in ecosystems		Ecosystem processes 2.7 Food chains and webs	
	› Adaptations, interdependence and competition		Ecosystem processes 2.9 Ecosystems	
			Adaptation and inheritance 3.1 Competition and adaptation 3.2 Adapting to change	
	› Decay and the carbon cycle		The Earth 4.5 The carbon cycle	Detection 3.5 Time of death
	› The effect of human interaction on ecosystems and biodiversity		Ecosystem processes 2.8 Disruption to food chains and webs	Turning points in biology 2.7 Preventing extinction
		The Earth 4.1 The Earth and its atmosphere 4.6 Climate change 4.7 Recycling	New technology (Chemistry) 1.6 New fuels 1.7 Cleaning up exhausts	

› Mapping of Activate to OxfordAQA International GCSE Biology (9201)

OxfordAQA International GCSE Biology (9201)		Mapping of content from Activate Key Stage 3 Science		
Topic area	Subtopic area	Activate 1 (ages 11-12) chapters and sections	Activate 2 (ages 12-13) chapters and sections	Activate 3 (ages 13-14) chapters and sections
ORGANISMS' INTERACTION WITH THE ENVIRONMENT	› The human nervous and hormonal systems	Cells 1.3 Specialised cells		
	› Principles of homeostasis	No prior teaching needed before OxfordAQA International GCSE study.		
	› Control of water and ion content of the body	No prior teaching needed before OxfordAQA International GCSE study.		
	› Temperature control	No prior teaching needed before OxfordAQA International GCSE study.		
	› Control of blood glucose	No prior teaching needed before OxfordAQA International GCSE study.		
	› Behaviour	No prior teaching needed before OxfordAQA International GCSE study.		
	› Infection and response			Turning points in biology 2.1 Vaccines 1 2.2 Vaccines 2 2.3 Antibiotics 1 2.4 Antibiotics 2
INHERITANCE	› Reproduction	Reproduction 3.1 Adolescence 3.2 Reproductive systems 3.3 Fertilisation and implantation 3.4 Development of a fetus 3.5 The menstrual cycle 3.6 Flowers and pollination 3.7 Fertilisation and germination 3.8 Seed dispersal		
	› Cell division			New technology 1.1 Genetics 1.5 Cloning
	› Genetic variation		Adaptation and inheritance 3.3 Variation 3.4 Continuous and discontinuous 3.5 Inheritance	New technology 1.1 Genetics
	› Genetic disorders			New technology 1.2 Inherited disorders
	› Genetic manipulation			New technology 1.4 Genetic engineering 1.5 Cloning
VARIATION AND EVOLUTION	› Variation		Adaptation and inheritance 3.1 Competition and adaptation 3.2 Adapting to change 3.3 Variation 3.4 Continuous and discontinuous 3.5 Inheritance	
	› Natural selection		Adaptation and inheritance 3.6 Natural selection 3.7 Extinction	Turning points in biology 2.6 Charles Darwin 2.7 Preventing extinction

LAY STRONG FOUNDATIONS FOR OXFORDAQA INTERNATIONAL GCSE SCIENCE

Activate

		Student Books	Teacher Handbooks	Intervention Workbooks	
Three Year	Two Year	 <p>978 019 839256 9</p>	 <p>978 019 839259 0</p>	 <p>Foundation Higher 978 019 842380 5 978 019 842379 9</p>	
		 <p>978 019 839257 6</p>	 <p>978 019 839260 6</p>	 <p>Foundation Higher 978 019 842382 9 978 019 842381 2</p>	
		 <p>978 019 839258 3</p>	 <p>978 019 839261 3</p>		

OxfordAQA International GCSE Science

		Separate Sciences	Combined Sciences
Three Year	Biology	 <p>Print Textbook 978 019 837588 3</p> <p>Online Textbook 978 019 841143 7</p> <p>Print & Online Textbook Pack 978 019 841142 0</p>	 <p>Print Textbook 978 019 840793 5</p> <p>Online Textbook 978 019 841158 1</p> <p>Print & Online Textbook Pack 978 019 841157 4</p>
	Physics	 <p>Print Textbook 978 019 837590 6</p> <p>Online Textbook 978 019 841153 6</p> <p>Print & Online Textbook Pack 978 019 841152 9</p>	 <p>Print Textbook 978 019 840795 9</p> <p>Online Textbook 978 019 841168 0</p> <p>Print & Online Textbook Pack 978 019 841167 3</p>
	Chemistry	 <p>Print Textbook 978 019 837589 0</p> <p>Online Textbook 978 019 841148 2</p> <p>Print & Online Textbook Pack 978 019 841147 5</p>	 <p>Print Textbook 978 019 842308 9</p> <p>Online Textbook 978 019 841163 5</p> <p>Print & Online Textbook Pack 978 019 842307 2</p>

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