

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

Mapping of Activate from Oxford University Press to
OxfordAQA International GCSE Physics (9203)



THE BRIDGE TO INTERNATIONAL GCSE PHYSICS (9203)

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 Physics (9203), 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 Physics (9203) 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 Physics (9203)

OxfordAQA International GCSE Physics (9203)		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
FORCES AND THEIR EFFECTS	› Forces and their interactions	Forces 1.1 Introduction to forces 1.2 Squashing and stretching 1.3 Drag forces and friction 1.4 Forces at a distance		
	› Motion		Motion and pressure 3.1 Speed 3.2 Motion graphs	
	› Resultant forces	Forces 1.5 Balanced and unbalanced	Motion and pressure 3.2 Motion graphs	
	› Momentum	No prior teaching needed before OxfordAQA International GCSE study.		
	› Safety in public transport			New technology 1.5 Your sports
	› Forces and terminal velocity	Forces 1.3 Drag forces and friction		
	› Centre of mass		Motion and pressure 3.6 Turning forces	
	› Moments and levers	No prior teaching needed before OxfordAQA International GCSE study.		
ENERGY	› Forces and energy	No prior teaching needed before OxfordAQA International GCSE study. Forces 1.1 Introduction to forces 1.2 Squashing and stretching 1.3 Drag forces and friction 1.4 Forces at a distance	Energy 2.7 Energy and power 2.8 Work, energy, and machines	
	› Energy transfers, conservation and dissipation of energy	No prior teaching needed before OxfordAQA International GCSE study.		
	› Energy resources			New technology 1.6 Your planet
WAVES	› General properties of waves	Sound 2.1 Waves		Detection 3.4 Detecting messages
	› The electromagnetic spectrum			
	› Sound and ultrasound	Sound 2.2 Vibrations and energy transfer 2.3 Loudness and pitch 2.4 Detecting sound 2.5 Echoes and ultrasound		
	› Reflection	Light 3.2 Reflection		
	› Refraction and total internal reflection	Light 3.3 Refraction		New technology 1.4 Your hospital - seeing inside
	› Lenses and the eye	Light 3.4 The camera and the eye		

› Mapping of Activate to OxfordAQA International GCSE Physics (9203)

OxfordAQA International GCSE Physics (9203)		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
PARTICLE MODEL OF MATTER	› Kinetic theory	Particles and their behaviour 1.1 The particle model 1.2 States of matter 1.3 Melting and freezing 1.4 Boiling 1.5 More changes of state	Energy 2.3 Energy and temperature	
	› Energy transfers and particle motion	No prior teaching needed before OxfordAQA International GCSE study.		
ELECTRICITY AND MAGNETISM	› Electrical circuits		Electricity and magnetism 1.1 Charging up 1.2 Circuits and current 1.3 Potential difference 1.4 Series and parallel 1.5 Resistance	
	› Magnetism and electromagnetism			Turning points in physics 2.8 Electromagnetism 1 2.9 Electromagnetism 2
GENERATING AND DISTRIBUTING ELECTRICITY AND HOUSEHOLD USE	› Generating electricity			Turning points in physics 2.8 Electromagnetism 1
	› Electricity transmission and distribution	No prior teaching needed before OxfordAQA International GCSE study.		
	› Using electricity in the home	No prior teaching needed before OxfordAQA International GCSE study.		
	› The motor effect		Electricity and magnetism 1.8 Using electromagnets	
	› Transferring electrical energy		Energy 2.7 Energy and power	
NUCLEAR PHYSICS	› Atomic structure			Turning points in chemistry 2.2 Looking into atoms
	› Ionizing radiation from the nucleus			Turning Points in physics 2.6 Radioactivity 1 2.7 Radioactivity 2
	› Nuclear fission	No prior teaching needed before OxfordAQA International GCSE study.		
	› Nuclear fusion			New technology 1.6 Your planet
SPACE PHYSICS	› Life cycle of a star	No prior teaching needed before OxfordAQA International GCSE study.		
	› Solar system and orbital motion	Space 4.1 The night sky 4.2 The Solar System 4.3 The Earth 4.4 The Moon		
	› Red shift and the expanding universe	No prior teaching needed before OxfordAQA International GCSE study.		

LAY STRONG FOUNDATIONS FOR OXFORDAQA INTERNATIONAL GCSE SCIENCE

Activate

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

OxfordAQA International GCSE Science

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

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Support from OxfordAQA

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