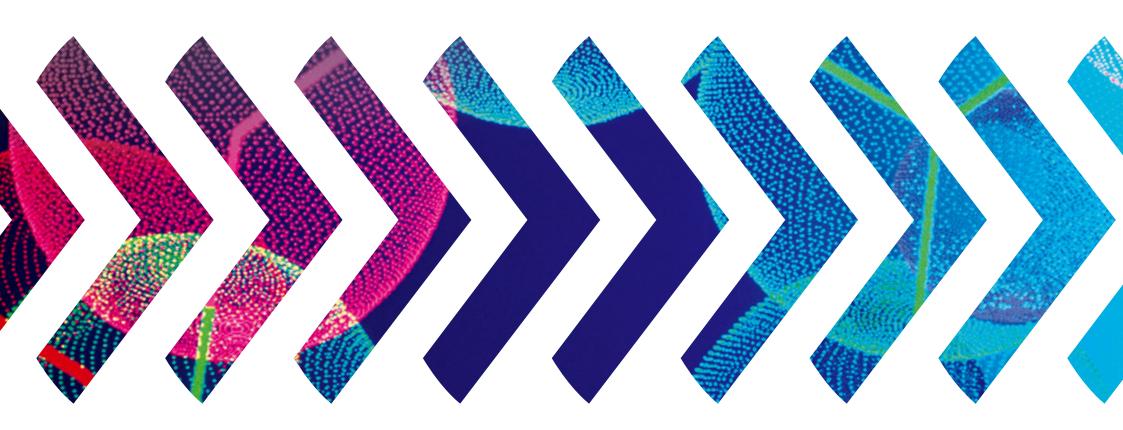


> STEP UP TO OXFORDAQA INTERNATIONAL GCSE CHEMISTRY

Mapping of Activate from Oxford University Press to OxfordAQA International GCSE Chemistry (9202)



THE BRIDGE TO INTERNATIONAL GCSE CHEMISTRY (9202)

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 Chemistry (9202), 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 Chemistry (9202) 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 Chemistry (9202)

Oxford/	AQA International GCSE Chemistry (9202)		Mapping of content from Activate Key Stage 3	Science		
Topic	Subtopic area	Activate 1 (ages 11-12)	Activate 2 (ages 12-13)	Activate 3 (ages 13-14)		
area		chapters and sections	chapters and sections	chapters and sections		
ATOMIC STRUCTURE AND THE PERIODIC TABLE	> Solid, liquids and gases	Particles and their behaviour 1.2 States of matter 1.3 Melting and freezing 1.4 Boiling 1.5 More changes of state 1.6 Diffusion				
	> A simple model of the atom	Elements, atoms, and compounds 2.1 Elements 2.2 Atoms				
	> The periodic table	Elements, atoms, and compounds 2.1 Elements	The Periodic Table 1.1 Metals and non-metals 1.2 Groups and periods 1.3 The elements of Group 1 1.4 The elements of Group 7 1.5 The elements of Group 0	Turning points in chemistry 2.3 Discovering the periodic table		
STRUCTURE, BONDING AND THE PROPERTIES OF MATTER	Chemical bonds: ionic, covalent and metallic	Elements, atoms, and compounds 2.3 Compounds 2.4 Chemical formulae				
	How bonding and structure are related to the properties of substances					
A SE	> Structure and bonding of carbon	No prior teaching needed before OxfordAQA	International GCSE study.			
STRUCTU AND THE F	> Nanoparticles			New technology 1.1 Nanoparticles 1.2 Using nanoparticles 1.3 Nanoparticles in medicine 1.4 Nanoparticle safety		
AL ES	> Metals		The Periodic Table 1.1 Metals and non-metals			
5 5	> The reactivity series	No prior teaching needed before OxfordAQA International GCSE study.				
CHEMICAL	> Metal carbonates	Reactions 3.4 Thermal decomposition				
	> Electrolysis	No prior teaching needed before OxfordAQA	International GCSE study.			
CHEMICAL ANALYSIS	> Purity and chromatography		Separation techniques 2.1 Mixtures 2.2 Solutions 2.3 Solubility 2.4 Filtration 2.5 Evaporation and distillation 2.6 Chromatography			
单	> Identification of common gases	No prior teaching needed before OxfordAQA International GCSE study.				
<u></u> 5	> Identification of ions	No prior teaching needed before OxfordAQA International GCSE study.				
ACIDS, BASES AND SALTS	> The properties of acids and bases	Acids and alkalis 4.1 Acids and alkalis 4.2 Indicators and pH 4.3 Neutralisation				
	> Preparation of salts	Acids and alkalis 4.4 Making salts	Metals and acids 3.1 Acids and metals			

> Mapping of Activate to OxfordAQA International GCSE Chemistry (9202)

Oxford/	AQA International GCSE Chemistry (9202)		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		
QUANTITATIVE CHEMISTRY	Conservation of mass including the quantitative interpretation of chemical equations	Elements, atoms, and compounds 2.4 Chemical formulae Reactions 3.1 Chemical reactions		·		
	> Use of amount of substance in relation	3.2 Word equations 3.5 Conservation of mass	Separation techniques			
	to masses of pure substances		2.1 Mixtures			
	> The mole concept	No prior teaching needed before OxfordAQA International GCSE study.				
	Using molar concentrations of solutions and amount of substance in relation to volumes of gases	No prior teaching needed before OxfordAQA International GCSE study.				
TRENDS WITHIN THE PERIODIC TABLE	> Group properties		The Periodic Table 1.3 The elements of Group 1 1.4 The elements of Group 7			
	> Transition metals	No prior teaching needed before OxfordAQA International GCSE study.				
	> Rate of reaction	Particles and their behaviour 1.6 Diffusion 1.7 Gas pressure				
THE RATE AND EXTENT OF CHEMICAL CHANGE	> Reversible reactions and dynamic equilibrium	Reactions 3.1 Chemical reactions				
	> Production of ammonia and sulfuric acid	No prior teaching needed before OxfordAQA International GCSE study.				
	> Redox reactions	No prior teaching needed before OxfordAQA International GCSE study.				
ES	> Exothermic and endothermic reactions	Reactions 3.6 Exothermic and endothermic				
ENERGY CHANGES	Calculating and explaining energy change	No prior teaching needed before OxfordAQA International GCSE study.				
	> Chemical cells and fuel cells			New technology 1.6 New fuels		
	Carbon compounds as fuels	Reactions 3.3 Burning fuels		New technology 1.5 Cars: pros and cons		
> -	> Crude oil	Reactions 3.3 Burning fuels				
1ISTR	> Hydrocarbons	Reactions 3.3 Burning fuels		New technology 1.5 Cars: pros and cons		
CHEMISTRY	Obtaining useful substances from crude oil	No prior teaching needed before OxfordAQA International GCSE study.				
ANIC	Synthetic and naturally occurring polymers		Metals and acids 3.7 Polymers			
ORGANIC	> Organic compounds - their structure and reactions	No prior teaching needed before OxfordAQA International GCSE study.				
	> Alcohols	No prior teaching needed before OxfordAQA International GCSE study.				
	Carboxylic acids	No prior teaching needed before OxfordAQA International GCSE study.				
	> Esters	No prior teaching needed before OxfordAQA	International GCSE study.			

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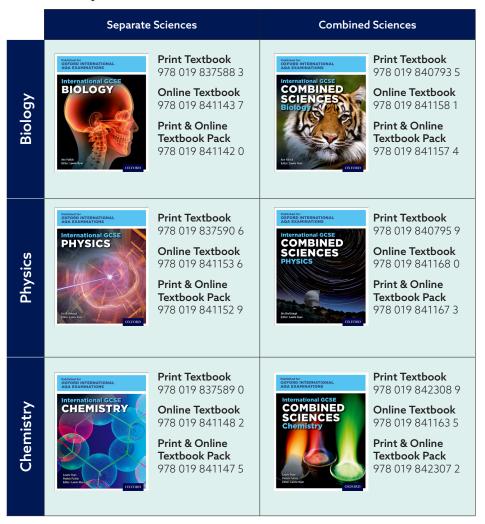
LAY STRONG FOUNDATIONS FOR OXFORDAQA

INTERNATIONAL GCSE SCIENCE

Activate



OxfordAQA International GCSE Science



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