

Science - KS4

GCSE Science Overview

Our Key Stage 4 curriculum for AQA GCSE Combined Science aims to provide a robust foundation in biology, chemistry, and physics while nurturing essential skills and attitudes. We prioritise rigorous scientific knowledge, focusing on core concepts and principles. Our curriculum fosters critical thinking, problem-solving, and hands-on experimentation, preparing students for real-world challenges. We emphasise effective communication and the relevance of science in daily life and society, encouraging ethical discussions about scientific advancements.

We connect science to everyday life and societal challenges, helping students understand its relevance. We also promote ethical discussions about the societal impact of science, preparing students to be responsible citizens in an evolving scientific landscape. Our intent is to empower students building confidence in the discipline whilst also fostering inclusivity, diversity, and a deep appreciation for science's role in shaping our world.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 10	<ul style="list-style-type: none"> - Cell biology - Atomic structure and the periodic table 	<ul style="list-style-type: none"> - Particle Model Organisation - Atmosphere and using resources 	<ul style="list-style-type: none"> - Forces - Bonding and Structure 	<ul style="list-style-type: none"> - Bioenergetics - Chemical Changes 	<ul style="list-style-type: none"> - Waves - Organic Chemistry 	<ul style="list-style-type: none"> - Electromagnetism and magnetism - Inheritance, variation and evolution
Year 11	<ul style="list-style-type: none"> - Infection and Response - Energy 	<ul style="list-style-type: none"> - Energy changes and the rate of reactions - Homeostasis and response 	<ul style="list-style-type: none"> - Electricity - Chemical Analysis 	<ul style="list-style-type: none"> - Quantitative Chemistry - Atomic Structure 	<ul style="list-style-type: none"> - Ecology 	

AQA Unit Awards Overview

Our Key Stage 4 curriculum for AQA Unit Awards in Science is designed with a clear intent to provide a flexible and inclusive science education that recognizes and celebrates the diverse abilities and achievements of our students. Our aim is to offer a personalised learning experience that supports students in gaining valuable scientific knowledge and skills, fostering their confidence, and preparing them for further academic or vocational pathways.

Each unit has been selected to mirror the AQA GCSE Combined science specification. This allows learners who are struggling to access the GCSE curriculum to still learn the same content, but in a more tailored way. Furthermore, it will allow students to move across from the GCSE course and gain the same amount of awards as those initially on the AQA Unit Award pathway.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 11	<ul style="list-style-type: none"> - How The Body Fights Diseases - Atoms and Elements 	<ul style="list-style-type: none"> - Forces - Evolution and Inheritance 	<ul style="list-style-type: none"> - The Earth's Atmosphere and global Warming - Energy Transfers 	<ul style="list-style-type: none"> - Biological Organisation - Chemical Bonding 	<ul style="list-style-type: none"> - Investigating Reaction Times 	

<p>Biology Units</p> <ul style="list-style-type: none"> - How The Body Fights Disease: 116511 - Evolution and Inheritance: 114826 - Biological Organisation: 114701 	<p>Chemistry Units</p> <ul style="list-style-type: none"> - Atoms and Elements: 119063 - The Earths Atmosphere and Global Warming: 116388 - Chemical Bonding: 114700 	<p>Physics Units</p> <ul style="list-style-type: none"> - Forces: 119078 - Energy transfers: 113871 - Investigation Reaction Times: 116505
---	--	--