

Science Curriculum Overview 2025/26

Context:

Students have 4 science lessons a week, where they follow the AQA Trilogy specification and will achieve 2 GCSEs by the end of year 11. The large majority of students will have started the AQA trilogy in their homeschools.

Lessons are taught by 1 teacher and are divided into Biology, Chemistry and Physics. Students learn through a combination of theory and practical work. The order of teaching can be found below.

Intent:

We follow the same teaching order of Biology and Physics AQA Trilogy as they are ordered by AQA in a sequence that best meets the needs of our students. However, many of our students struggle with the abstract concepts and mathematical content of Chemistry paper 1. For this reason, we teach this more challenging content in the second half of the year, once students have built up their Chemistry skills through learning the Paper 2 content.

Assessment:

Students are assessed informally throughout the year at the beginning and end of each topic, and through homework on Seneca to check progress and inform planning and interventions. Students will also do mocks in January, once they have covered all the content in Biology Paper 1, Chemistry Paper 2 and Physics Paper 1.

KS4 Science Overview Map (AQA Trilogy)

	Summer 2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Biology	B1: Cells	B2: Organisation	B3: Disease B4: Bioenergetics B5: Homeostasis	Paper 1 Mock Exam B5: Homeostasis	B6: Inheritance B7: Ecology	B7: Ecology Revision	Revision and Exams
Chemistry	Intro to Chemistry. C6: Rate of Reactions, C5: Energy Changes	C7: Organic Chemistry, C8: Chemical Analysis, C9: The Atmosphere	C10: Using Resources C4: Chemical Changes C1: Atomic Structure	Paper 2 Mock exam C2: Bonding	C2: Bonding C3: Quantitative Chemistry	C3: Quantitative Chemistry Revision	Revision and Exams
Physics	P1: Energy	P2: Electricity	P3: Particle model, P4: Atomic structure. P5: Forces	Paper 1 Mock exam P5: Forces	P5: Forces. P6: Waves	P7: Magnetism Revision	Revision and Exams

Biology		Chemistry		Physics	
Paper 1 Topics	Paper 2 Topics	Paper 1 Topics	Paper 2 Topics	Paper 1 Topics	Paper 2 Topics
B1: Cells B2: Organisation B3: Disease B4: Bioenergetics	B5: Homeostasis B6: Inheritance B7: Ecology	C1: Atomic structure C2: Bonding C3: Quantitative Chemistry C4: Chemical changes C5: Energy Changes	C6: Rate of Reaction C7: Organic Chemistry C8: Chemical Analysis C9: Atmosphere C10: Using resources	P1: Energy P2: Electricity P3: Particle Model P4: Atomic Structure	P5: Forces P6: Waves P7: Magnetism