

## Key Stage 4 Curriculum Overview for AQA Combined Science (Trilogy) - 2023 to 2024

Year 10	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Biology	B3: Infection & response	B4: Bioenergetics - <i>photosynthesis</i>	B4: Bioenergetics - <i>respiration</i>	B5: Homeostasis – <i>nervous response</i>	B5: Homeostasis – <i>hormonal response</i>	Mock exam preparation Begin Unit B7
Chemistry	C3: Chemical calculations	C4.1: Chemical Change	C4.2: Electrolysis	C5: Energy Changes	C6: Rates	C6: Rates
Physics	Electricity, circuits, series and parallel.	Electricity in the home, AC and DC circuits, wiring a plug.	The particle model of matter, density.	Radioactivity, the model of the atom, atomic structure, isotopes.	Forces in balance, Newton's Laws.	Forces in motion, acceleration, motion graphs.
Assessments and Exams	<b>Assessments</b> Mid Topic and End of Unit assessments <b>Digital Platforms:</b> Seneca Homework, Sparx Science and Carousel Learning <b>Biology Required Practical:</b> Rates of photosynthesis; reaction times <b>Chemistry Required Practical:</b> Making Salt, Electrolysis, Temperature Changes, Rates of Reaction <b>Physics Required Practical:</b> Resistance of a wire, series and parallel circuits, density investigation			<b>Exams</b> <u>End of Year Exam (Term 3)</u> Biology Paper 1: Units 1-4 - 1h15min, 33.3 % of end of year grade Chemistry Paper 1: Topics 1-5 - 1h15min, 33.3 % of end of year grade Physics Paper 1: Units 1-4 - 1h15min, 33.3 % of end of year grade		

Year 11	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Biology	B7: Ecology	B6: Inheritance, variation and evolution	B6: Inheritance, variation, and evolution	Mock preparation, consolidation, and revision	Consolidation, Revision Exam Techniques	GCSE Examinations
Chemistry	C7 Crude oil & fuel	C8 Chemical Analysis	C9 Atmosphere	C10.1 The Earth's Resources		
Physics	Forces and motion: <i>terminal velocity, braking and safety, Hooke's Law and Elasticity.</i>	Waves: <i>sound, electromagnetic spectrum, communications, waves in medicine.</i>	Electromagnetism, magnets, the motor effect, electromagnets.	Mock preparation, consolidation, and revision		
Assessments and Exams	<b>Assessments</b> Mid Topic and End of Unit assessments <b>Digital Platforms:</b> Seneca Homework and Carousel Learning <b>Biology Required Practical:</b> Investigating populations; rates of decay <b>Chemistry Required Practical:</b> Chromatography, Water Purification <b>Physics Required Practical:</b> Acceleration, Hooke's Law, ripple tank and waves in a solid			<b>Mock 1 (Term 1)</b> Biology Paper 1: Units 1-4 - 1h15min, Chemistry Paper 1: Topics 1-5- 1h15min, Physics Paper 1: Units 1-4 - 1h15min Each paper is 33.3% of overall Mock 1 Grade	<b>Mock 2 (Term 2)</b> Biology Paper 2: Units 1-4 - 1h15min, Chemistry Paper 2: Topics 6-10 1h15min, Physics Paper 2: Units 5-7 - 1h15min Each paper is 16.65% of overall Mock 2 Grade	