

Subject	AAQ Applied Science	Year Group:	12
Unit/Topic	Fundamentals of science	Investigating science	
Skills	Independent thinking Use and application of scientific methods and practices Numeracy and the application of mathematical concepts in a practical context Instruments and equipment Planning for representative data	Independent thinking Use and application of scientific methods and practices Numeracy and the application of mathematical concepts in a practical context Instruments and equipment Planning for representative data	
Knowledge	Cell structure and function and microscopy Bioenergetics Structure and function of biological molecules Biodiversity and ecosystems Atomic structure and the Periodic Table Quantitative chemistry Structure and bonding Rates of reaction and enthalpy changes Electricity Motion Medical physics Radioactivity	Planning a scientific investigation Performing a scientific investigation Analysing and communicating results	

Recall/review from previous learning	KS4 biology; Common molecules used across GCSE. Types of bonding, Eukaryotic & Prokaryotic Cells, Microscopy, Structure of DNA, Basics of inheritance, Classification, Maintaining Biodiversity and Impact of humans on Biodiversity KS4 chemistry; Atomic structure and the periodic table, Quantitative chemistry, Structure and bonding, Rates of reaction and enthalpy changes KS4 physics; Electricity, Forces and Radioactivity	KS4 method writing, practical skills
Assessment	Formative assessments – end of topic tests Summative assessments – mock exams In class questioning Exam question homework tasks External exam	NEA - coursework
Cultural Capital	Job link each lesson University course links University visits Structure of basic nutrients in food How cells are the basic building blocks for life	Job link each lesson University course links University visits
	National Field work week British science week	National Field work week British science week
Literacy/Numeracy	Arithmetic and numerical computation Handling data Algebra Graphs Geometry and trigonometry	Arithmetic and numerical computation Handling data Algebra Graphs Geometry and trigonometry

Subject	AAQ Applied Science	Year Group:	13	
Unit/Topic	Science in society	Environmental Studies		Tbc – option unit
Skills	Independent thinking Numeracy and the application of mathematical concepts in a practical context Instruments and equipment Planning for representative data	Independent thinking Instruments and equipment Planning for representative data		
Knowledge	What scientists do Handling scientific data Scientific developments Communicating science	Ecosystems and biodiversity Impact of human activity and natural events Waste management Environmental management and conservation Fieldwork		
Recall/review from previous learning	Hypothesis writing. Writing a conclusion Data handling	Maintaining Biodiversity and Impact of humans on Biodiversity		
Assessment	Formative assessments – end of topic tests Summative assessments – mock exams In class questioning Exam question homework tasks External exam	In class questioning homework tasks NEA Coursework		In class questioning homework tasks NEA Coursework

		Graphs	
Cultural Capital	Job link each lesson University course links University visits National Field work week British science week	Job link each lesson University course links University visits National Field work week British science week	Job link each lesson University course links University visits National Field work week British science week
Literacy/Numeracy	Arithmetic and numerical computation	Arithmetic and numerical computation	Arithmetic and numerical computation
	Handling data Algebra Graphs	Handling data Algebra Graphs	Handling data Algebra Graphs