



Overall Curriculum Aim:

Develop a love of science and intellectual curiosity whilst embedding the knowledge and skills required to be successful at GCSE and beyond.

Scheme for Learning

Curriculum Area – Science

Overview – Year 11 Chemistry 2021-2022

Personnel Responsible – Mrs. R. Cooper

Quality Assured by – Mr. J. Anderson (AVP)

Exam Board/Qualification at KS4 – AQA GCSE Science (trilogy/separate)

Assessment Cycle	Topic/Unit Title – Big Questions	Rationale/Skill Development	Link to Assessment Objectives/Progression Scales Skills
1	How do we manage the Earth's resources? How do chemists use chemical equations and calculations?	To develop students' appreciation of how scientific processes are used to survive on planet Earth including treating wastewater. To understand how a variety of products are made using the Earth's resources and how Life cycle assessments are used to evaluate the impact of these products, their manufacture and their use. To develop student's use and manipulation of chemical equations in order to calculate relative masses, moles, reacting amounts, empirical formula, and concentration of solutions. To utilize a variety of mathematical skills in a science based context.	AQA GCSE Trilogy/Separate Science Chemistry Topic C10 (4.10.1, 4.10.2, 4.10.3, 4.10.4) Chemistry Topic C3 (4.3.1, 4.3.2, 4.3.3, 4.3.4, 4.3.5)
2	How do chemists use chemical equations and calculations? (continued from cycle 1)	To develop student's use and manipulation of chemical equations in order to calculate relative masses, moles, reacting amounts, empirical formula, and concentration of solutions. To utilize a variety of mathematical skills in a science based context.	AQA GCSE Trilogy/Separate Science Chemistry Topic C3 (4.3.1, 4.3.2, 4.3.3, 4.3.4, 4.3.5)
3/4	Revision for GCSE exams	To consolidate all GCSE work covered in preparation for the GCSE Chemistry exam, with particular focus on the practical skills needed to answer exam questions on the GCSE Required Practicals.	AQA GCSE Trilogy/Separate Science Chemistry Topics 1-9