



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 – Biology

Overview – Year 11 Biology 2021-22

Personnel Responsible – Mrs. R. Cooper

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

Exam Board/Qualification AQA Trilogy/Separate.

Assessment Cycle	Topic/Unit Title – Big Question	Rationale/Skill Development	Link to Assessment Objectives/Progression Scales Skills The following areas will be assessed
1	What keeps us going?	Students will build on knowledge gained in Year 7, 8, 9 and 10 to explore how humans are organised. Students will explore how both lifestyle and medical factors affect health, and will apply their understanding to various diseases. Students will apply knowledge from Year 9 lessons to further build knowledge on digestion and food tests. Students will carry out investigations to explore how enzymes work.	AQA GCSE Trilogy/Separate Science Biology topic 3 (Paper 1) Specification reference 4.2, 4.3
2	How do we impact our environment?	Students will build on knowledge gained in Year 7 and will explore the interactions of different organisms within an ecosystem. Students will develop their working scientifically skills through a number of required practicals, where they will also analyse their results. This topic fits nicely into this time of year as some of the practicals are reliant on the weather (random sampling with quadrats and sampling along a transect). Students will develop their mathematical skills as they will be required to calculate area, mean, mode, median, range and percentage coverage. Students will build knowledge on how materials are cycled through the carbon cycle, water cycle and decay cycle. Students will gain knowledge on decomposition and factors that affect the rate of decomposition. Students will study waste management and the impact it has on ecosystems and the environment. Students will gain knowledge on the impact of human activity (deforestation) on the Earth and will be able to describe programmes introduced to maintain biodiversity. Students will then evaluate different farming techniques.	AQA GCSE Trilogy/Separate Science Biology topic 7 (Paper 2) Specification reference 4.7
3/4	Revision for GCSE examinations	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 Biology topics 1-7 (Paper 1 and Paper 2) Specification reference 4.5