



Overall Curriculum Aim:

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

Scheme for Learning

Curriculum Area – Science

Overview – Year 10 Science

Physics 2021-2022

Personnel Responsibility – Rosie Cooper

Quality Assured by – Josh Anderson (AVP)

Exam Board/Qualification at KS4 – AQA Trilogy

Assessment Cycle	Topic/Unit Title – Big Question	Rationale/Skill Development	Link to Assessment Objectives/Progression Scales Skills The following areas will be assessed
1	Understanding the foundations of electrical circuits and their importance in the modern world.	Developing theoretical and practical skills around the use and electrical circuits. Building an understanding of a range of electrical circuit components, and understanding their applications in the modern world. First of all discovering what is happening inside electrical circuits to transfer energy between components, and then how a range of different circuit components are essential for a wide-range of modern day applications.	AQA GCSE Trilogy/Separate Science Physics Topics 2 and 3 (Paper 1) Specification Reference: 2.1-2.4
2	Understanding particles and the range of roles they play in the world of physics.	Building on work from KS3, in which students learned about particles and matter, but with a more in-depth look at the way in which particles interact with energy (in particular, thermal energy). Then, a more detailed examination of how the radiation emitted by certain particles in certain conditions can be both a force for good as well as a danger to society.	AQA GCSE Trilogy/Separate Science Physics Topic 3 and 4 (Paper 1) Specification Reference: 3.1-4.2
3	How do forces control our lives?	An introduction to how forces interact with matter to produce a range of measureable effects. To begin to understand the work of Sir Isaac Newton, and how forces change the way objects behave.	AQA GCSE Trilogy/Separate Science Physics Topic 5 (Paper 2) Specification Reference: 5.6-5.7
4	How do forces control our lives?	To take knowledge from Cycle 3 and link it to the motion of objects. To develop the vital skill of manipulating physical equations in order to use mathematics to explain the observable physics phenomenon that are witnessed each day. Finally, to use this knowledge to make informed choices about how to ensure safe travel in a modern world.	AQA GCSE Trilogy/Separate Science Physics Topic 5 (Paper 2) Specification Reference: 5.1-5.4