

KS4 Curriculum Overview 2024-25

Subject: SCIENCE

Rationale of KS4 Curriculum:

Students will follow either a Separate Science or a Combined Science pathway. These will provide a platform through which students can understand the world around them and the important part in which Science plays.

They will build upon their problem solving and mathematical skills learnt through Years 7-9 and start to add a depth to the breadth of knowledge gained over the previous 3 years.

They will continue to engage in practical Science, they will link the practical science to the theoretical science and apply their knowledge to 'real world' situations.

Sequence of Learning:

KS4	Term 1	Term 2	Term 3
Year 10	CB2 Cells and control CB3 Genetics CC5-7 Bonding and types of substance CC8 Acids and Alkalis CP4-5 Waves and the electromagnetic spectrum CP6 Radioactivity	CB4 Natural selection and genetic modification CB5 Health, disease and the development of medicines CC9 Calculations involving masses CC10-12 Obtaining and using metals CP7-8 Forces doing work and their effects	CB6 Plant structures and functions CB7 Animal coordination, control and homeostasis CC13 Groups in the periodic table CC14 Rates of reaction CP9 Electricity (part)
Year 11	CB8 Exchange and transport in animals CB9 Ecosystems and material cycles CC15 Heat energy changes in chemical reactions CC16 Fuels CP9 Electricity CP10-11 Magnetism, the motor effect and EM induction	CC17 Earth and atmospheric science CP12-13 Particle model, forces and matter Revision to follow completion of content	REVISION