

Science

The Science curriculum communicates the excitement of the scientific world we live in. Our aim is to develop ambitious and resilient learners who exceed expectations, question and can apply their working knowledge of Science in a modern day world.

Across Key Stage 4, the Science curriculum is taught in separate Biology, Chemistry and Physics modules. This ensures the pupils understand the difference between the natures of the three sciences and that they acquire the essential knowledge in all three areas. The curriculum is designed to optimise the number of links made between modules within and across the disciplines of science. The modules are designed to be practical in nature whilst challenging pupils thinking and ensuring they acquire the essential knowledge for each of the three sciences. Pupils will be tested on the knowledge and skills they learn through cumulative assessments and this will greatly improve their scientific knowledge and understanding.

Year 10

In year 10 pupils study the combined (9–1) science course. This programme of study builds upon modules previously learnt at KS3. Pupils will deepen their knowledge and skills as they revisit and further explore the key concepts from previous modules. In addition, there is a focus on pupils completing a number of mandatory core practicals throughout their GCSE. Pupils will be assessed through the regular completion of GCSE style examination questions, end of unit assessments and cumulative assessments.

The modules studied in Biology are Key concepts in biology, Cells and control, Genetics, Natural selection and genetic modification and Health, disease and the development of medicines.

The modules studied in Chemistry are: Key concepts in chemistry, States of matter and mixtures, Chemical changes and Extracting metals and equilibria.

The modules studied in Physics are: Key concepts of physics, Motion and forces, Conservation of energy Waves, Light and the electromagnetic spectrum and Radioactivity.