

Key Stage 3 Science

Introduction

The Heathland School science curriculum at Key stage 3 is divided into 3 parts; Biology, Chemistry and Physics.

The topics within each subject are embedded with concepts of 'How Science Works' and investigative skills. Literacy and numeracy is a huge focus within the science curriculum. Our students develop their extended writing, creative thinking, problem solving skills and scientific enquiry throughout KS3, which are all vital skills needed for progression into Key Stage 4 according to the new curriculum changes.

Formative and Summative assessments are made throughout the year to monitor student progress. Self and peer assessment is used within class to regularly assess pupils progress. They are given verbal feedback and written feedback so students know how to achieve and work towards specific targets.

Once they have completed a topic they are assessed in the form of a written test. At the end of the year they will be assessed on topics covered within the Autumn, Spring and Summer terms as an end of year Exam. We also use assessments similar to the required Practical Activities at GCSE in year 9 to fine tune their Sc1 skills for their transition into GCSE science.

Our current schemes of work are based on the Exploring Science framework.

Year 7

Autumn Term	Spring Term	Summer Term
<ul style="list-style-type: none"> • Introduction to practicals • Tissues and Transplants • Reproduction and growth • Acids and Alkalis 	<ul style="list-style-type: none"> • Chemical reactions • Energy and Sustainable living • Solids, liquids and gases • Electric Circuits 	<ul style="list-style-type: none"> • Ecology and Classification • Forces and their Effects • Weathering and Rocks • The Solar System and beyond



Year 8

Autumn Term	Spring Term	Summer Term
<ul style="list-style-type: none"> • Food and Digestion • Heat transfers • Water • Forces and Transport 	<ul style="list-style-type: none"> • Infections and Diseases • Respiration • Sound and Hearing • Compounds and mixtures 	<ul style="list-style-type: none"> • Classification and Ecology • Light • Atoms and Elements • Explaining the Earth

Year 9

Autumn Term	Spring Term	Summer Term
<ul style="list-style-type: none"> • Inheritance and Variation • Health and fitness • Energy and Electricity • Metals and chemical reactions 	<ul style="list-style-type: none"> • Sculpture park • Satellites and Space • Photosynthesis and plants • Pressure and force 	<ul style="list-style-type: none"> • Crime scene Investigations • Acid rain, pollution and Global warming • Properties of materials • Speed and resistance

* Topics are taught in a rotation so the order may be different