

# Curriculum Overview: **Science**

## Key Stage 3 (Years 7, 8 and 9)

Year 7		
Autumn Term Tissues & Transplants Energy & Sustainable Living Acids & Alkalis Sex & Science	Spring Term Classified Bubbles & Burning Electrical Circuits What a Waste	Summer Term Forces & their Effects Materials & the Earth Solar System & Beyond Ecology Matters
Year 8		
Autumn Term Food Glorious Food Heat Transfers Water Going for Gold	Spring Term Doctors & Diseases Materials & Recycling Forces & Transport All That Glitters	Summer Term Light Explaining the Earth Sound & Hearing The Way of the Dodo
Year 9		
Autumn Term Science & Fiction Buying Energy Building for The Future	Spring Term On the Farm Sculpture Park Satellites & Space	Summer Term Record Breakers C.S.I Flying Materials
GCSE 9-1 Core Practical Preparations		

## Key Stage 4 (Years 10 and 11)

Exam Link
<a href="https://qualifications.pearson.com/en/qualifications/edexcel-gcses/sciences-2016.html">https://qualifications.pearson.com/en/qualifications/edexcel-gcses/sciences-2016.html</a>
Curriculum Information
<p>At KS3 students follow our adapted version of the new KS3 Programme of study. This has the applications of science firmly embedded within in it and provides students with plenty of practical opportunities and investigative work. Biology, Chemistry and Physics are taught as separate units, and the fundamental principles of 'Working Scientifically' are taught in each lesson. This enables students to develop important skills such as modelling, data analysis and scientific literacy whilst preparing them for the GCSE course.</p> <p>At KS 4 the majority of our students study GCSE Combined Science course attaining 2 two GCSE grades at either Foundation or Higher level. Throughout the course teachers will accurately track and monitor students before engaging in</p>

discussions as to which tier of entry students will be best suited to. The main components of the course are:

**Biology:** Cells & Control, Genetics, Plant Structures & their Function, Ecosystems

**Chemistry:** States of Matter, Groups in the Periodic Table, Acids & alkalis, Bonding

**Physics:** Electricity, Energy, Waves, Radioactivity, The Particle Model

#### Additional Information

Gifted and Talented students may opt for Separate Sciences and will complete GCSE's in Biology, Chemistry and Physics. This course is aimed at those students who are expected to achieve a GCSE grade of at least a 6, have a strong interest in the sciences and are hoping to pursue sciences at a Higher level.