

## TRILOGY SCIENCE CURRICULUM: KS4

### Intent:

In Science we aim to deliver a *knowledge rich, ambitious, and inclusive* curriculum that ensures all pupils master key concepts in the three Sciences. This *empowers* them to examine *relevant* global issues such as pollution, food sustainability, climate change *etc.* We ensure pupils develop a *coherent* understanding of scientific enquiry and gain the skills needed to draw valid conclusion via practical work. We aim to foster pupil's natural curiosity and develop them into critical thinkers where they can apply their knowledge to the modern world (e.g., understanding electricity bills, choosing a car wisely, the importance of screening).



<b>Qualification(s)</b>	2 GCSEs
<b>Exam Board</b>	AQA
<b>Link to Specification</b>	<a href="https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464/specification-at-a-glance">https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464/specification-at-a-glance</a>

Procedural knowledge is developed throughout the curriculum whilst pupil's carry out the required practicals. These practicals are assessed within the external exams so is vital pupils attend these lessons.

A test will follow after each group of chapters. E.g. after P1, P2 and P3. This will include core questions plus an extended writing question. These are highlighted on the document with a \*.

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 10	P1 – Conservation and Dissipation of Energy P2 – Energy Transfer by Heating P3 – Energy Resources*	C1 – Atomic Structure C2 – The Periodic Table C3 – Structure and Bonding* B1 – Cell Structure and Transport	B2 – Cell Division B3 – Organisation and the Digestive System B4 – Organising Animals and Plants* P4 – Electric Currents	P5 – Electricity in the Home* C4 – Chemical Calculations C5 – Chemical Changes* B5 – Communicable Diseases	B6 – Preventing and Treating Disease B7 – Non-communicable Diseases* P6 – Molecules and Matter P7 – Radioactivity*	C6 – Electrolysis C7 – Energy Changes* B8 – Photosynthesis B9 – Respiration* <i>Mock exams</i>

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 11	P8 – Forces in Balance P9 – Motion P10 – Forces and Motion* C8 – Rates and Equilibrium + Interleaving	B10 – The Human Nervous System B11 – Hormonal Coordination* P12 – Wave Properties P13 – Electromagnetic Waves <i>Mock exams</i>	P15 – Electromagnetism* C9 – Crude Oil and Fuels* C12 – Chemical Analysis C13 – The Earth’s Atmosphere	C14 – The Earth’s Resources* B13 – Reproduction B14 – Variation and Evolution B15 – Genetics and Evolution* <i>Mock exams</i>	B16 – Adaptions, Interdependence and Competition B17 – Organising an Ecosystem B18 – Biodiversity and Ecosystems*	<i>External Exams</i>

### **Further Support:**

Pupils have access to an online textbook and revision materials on Kerboodle:

<https://www.kerboodle.com/users/login>

BBC Bitesize has some excellent resources to support your child's learning:

<https://www.bbc.co.uk/bitesize/examspecs/z8r997h>

### **Who to contact regarding KS4 Trilogy Science:**

Mrs S. Burns – Head of Science

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