

Year 9
Combined Science

Subject Title	Combined Science: Trilogy
Exam board	AQA
Specification code	8464
Entry Level	Foundation and Higher Tier
Exam details	<p>Six papers Duration – 1hour 15 minutes; 70 marks per paper Each paper 16.7% of GCSE Questions: Multiple choice, structure, closed short answer and open response</p> <p>Biology Paper 1 Topics 1-4: Cell biology; Organisation; Infection and response; and Bioenergetics</p> <p>Biology Paper 2 Topics 5-7: Homeostasis and response; Inheritance, variation and evolution; and Ecology</p> <p>Chemistry Paper 1 Topics 8-12: Atomic structure and the periodic table; Bonding, structure and the properties of matter; Quantitative chemistry; Chemical changes; and Energy changes</p> <p>Chemistry Paper 2 Topics 13-17: The rate and extent of chemical change; Organic chemistry; Chemical analysis; Chemistry of the atmosphere; and Using resources.</p> <p>Physics Paper 1 Topics 18-21: Energy; Electricity; Particle model of matter; and Atomic structure</p> <p>Physics Paper 2 Topics 22-24: Forces; Waves; and Magnetism and electromagnetism</p>
Setting arrangements	Mixed ability
Time allowed	8 lessons per fortnight 8 x 50 minutes
Textbooks and revision guides	<p>Textbooks AQA GCSE Biology – 978-0-19-835937-1 AQA GCSE Chemistry – 978-0-19-835938-8 AQA GCSE Physics – 978-0-19-835939-5</p>

	<p>On line versions of text books are provided</p> <p>Revision Guide</p> <p>CGP – GCSE Combined Science for AQA (Grades 1-9) Foundation Level ISBN – 978782945604</p> <p>CGP – GCSE Combined Science for AQA (Grades 1-9) Higher Level ISBN – 9781782945598</p>
Homework information	<p>2 Homeworks per week x 50 minutes</p> <p>Exam style questions; Research; Assessment; Revision; and Retrieval practice</p>

Term	Topics	Skills	Assessment
1	<p>Cell Structure</p> <p>Atomic structure</p> <p>Periodic Table</p> <p>Development of periodic table</p> <p>Metals and non-metals</p> <p>Conservation of mass</p> <p>State symbols</p>	<p>Practical and investigation skills.</p> <p>Information retrieval.</p> <p>Listening and observing.</p> <p>Scientific reading.</p> <p>Data representation.</p> <p>Scientific writing.</p> <p>Knowledge presentation.</p> <p>Mathematical skills.</p>	<p>Formative skills assessments focusing on required practicals.</p> <p>Retrieval practice – exam style questions</p>
2	<p>Contact and non-contact forces</p> <p>Gravity</p> <p>Speed</p> <p>Distance-time relationships</p>	<p>Practical and investigation skills.</p> <p>Information retrieval.</p> <p>Listening and observing.</p> <p>Scientific reading.</p> <p>Data representation.</p> <p>Scientific writing.</p> <p>Knowledge presentation.</p> <p>Mathematical skills.</p>	<p>Formative skills assessments focusing on required practicals.</p> <p>Retrieval practice – exam style questions</p> <p>End of topic test – Terms 1 and 2 content</p>
3	<p>Cell division</p> <p>Transport in cells</p>	<p>Practical and investigation skills.</p> <p>Information retrieval.</p>	<p>Formative skills assessments focusing on required practicals.</p> <p>Retrieval practice – exam style questions</p>

		<p>Listening and observing. Scientific reading.</p> <p>Data representation. Scientific writing.</p> <p>Knowledge presentation.</p> <p>Mathematical skills.</p>	
4	<p>Rate of reaction</p> <p>Conservation and dissipation of energy</p> <p>National and global energy stores</p>	<p>Practical and investigation skills.</p> <p>Information retrieval.</p> <p>Listening and observing. Scientific reading.</p> <p>Data representation. Scientific writing.</p> <p>Knowledge presentation.</p> <p>Mathematical skills.</p>	<p>Formative skills assessments focusing on required practicals.</p> <p>Retrieval practice – exam style questions</p> <p>End of topic test – Terms 3 and 4 content</p> <p>Year 9 Exam</p>
5	<p>Infection and response</p>	<p>Practical and investigation skills.</p> <p>Information retrieval.</p> <p>Listening and observing. Scientific reading.</p> <p>Data representation. Scientific writing.</p> <p>Knowledge presentation.</p> <p>Mathematical skills.</p>	<p>Formative skills assessments focusing on required practicals.</p> <p>Retrieval practice – exam style questions</p>
6	<p>Chemical bonds, ionic, covalent and metallic</p> <p>Properties – Ionic and small molecules</p> <p>Giant covalent structures</p> <p>Metals & alloys</p> <p>Metals as conductors</p>	<p>Practical and investigation skills.</p> <p>Information retrieval.</p> <p>Listening and observing. Scientific reading.</p> <p>Data representation. Scientific writing.</p> <p>Knowledge presentation.</p> <p>Mathematical skills.</p>	<p>Formative skills assessments focusing on required practicals.</p> <p>Retrieval practice – exam style questions</p> <p>End of topic test – Terms 5 and 6 content</p>

Links to websites and revision materials:

Online text book -

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

Revision resources

<https://www.bbc.co.uk/bitesize/subjects/zrkw2hv>

Quizzes

<https://www.educationquizzes.com/gcse/science/>

<https://senecalearning.com/en-GB/>