

## Curriculum Area: Combined Science (trilogy) Year 10

2017/2018

Topics	Year Curriculum	How you can support learning at home, eg. books, websites, family learning through visits
<p><b>Biology</b></p> <p>Diseases and response</p> <p>Bioenergetics</p> <p>Homeostasis and response</p> <p>Inheritance, variation and evolution</p>	<p>Students will be awarded 2 science GCSEs at the end of Y11. These topics will be assessed in the biology papers that are taken at the end of Y11. Each paper contributes to 16.7% of the GCSE grades.</p> <p>Paper 1 :- Biology topics 1–4: Cell Biology; Organisation; Infection and response; and Bioenergetics.</p> <p>Paper 2 :- Biology topics 5–7: Homeostasis and response; Inheritance, variation and evolution; and Ecology.</p> <p>Additionally students will study mathematical and working scientifically skills throughout all units.</p> <p>There are 7 biology required practical investigations that are completed throughout</p>	<p>Revision guides that contain exam style questions can be ordered through school. These cover all content for biology, chemistry and physics.</p> <p>Monitor and support the completion of your child's homework.</p> <p>Use:- <a href="http://www.bbc.co.uk/education/subjects/z9ddmp3">http://www.bbc.co.uk/education/subjects/z9ddmp3</a> Support you child after the completion of assessments.</p> <p>Exam specification <a href="http://filestore.aqa.org.uk/resources/science/specifications/AQA-8464-SP-2016.PDF">http://filestore.aqa.org.uk/resources/science/specifications/AQA-8464-SP-2016.PDF</a></p>

	the course which there may be questions about in the terminal examinations.	
<b>Chemistry</b>  Chemical changes  Energy changes  Quantitative chemistry  Organic chemistry	<p>Students will be awarded 2 science GCSES at the end of Y11. These topics will be assessed in the chemistry papers that are taken at the end of Y11. Each paper contributes to 16.7% of the GCSE grades.</p> <p>Paper 1 :- Chemistry 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>Paper 2 :- Chemistry topics 13–17: The rate and extent of chemical change; Organic chemistry; Chemical analysis; Chemistry of the atmosphere; and Using resources.</p> <p>Additionally students will study mathematical and working scientifically skills throughout all units.</p> <p>There are 6 chemistry required practical investigations that are completed throughout the course which there may be questions about in the terminal examinations.</p>	<p>Revision guides that contain exam style questions can be ordered through school. These cover all content for biology, chemistry and physics.</p> <p>Monitor and support the completion of your child’s homework.</p> <p>Use:- <a href="http://www.bbc.co.uk/education/subjects/zs6hvcw">http://www.bbc.co.uk/education/subjects/zs6hvcw</a> Support you child after the completion of assessments.</p> <p>Exam specification <a href="http://filestore.aqa.org.uk/resources/science/specifications/AQA-8464-SP-2016.PDF">http://filestore.aqa.org.uk/resources/science/specifications/AQA-8464-SP-2016.PDF</a></p>

<p><b>Physics</b></p> <p>Atomic structure</p> <p>Waves</p> <p>Energy</p> <p>Electricity</p>	<p>Students will be awarded 2 science GCSEs at the end of Y11. These topics will be assessed in the physics papers that are taken at the end of Y11. Each paper contributes to 16.7% of the GCSE grades.</p> <p>Paper 1 :- Physics topics 18–21: Energy; Electricity; Particle model of matter; and Atomic structure.</p> <p>Paper 2 :- Physics topics 22–24: Forces; Waves; and Magnetism and electromagnetism</p> <p>Additionally students will study mathematical and working scientifically skills throughout all units.</p> <p>There are 8 physics required practical investigations that are completed throughout the course which there may be questions about in the terminal examinations.</p>	<p>Revision guides that contain exam style questions can be ordered through school. These cover all content for biology, chemistry and physics.</p> <p>Monitor and support the completion of your child’s homework. Use:- <a href="http://www.bbc.co.uk/education/subjects/zpm6fg8">http://www.bbc.co.uk/education/subjects/zpm6fg8</a></p> <p>Support you child after the completion of assessments.</p> <p>Exam specification</p> <p><a href="http://filestore.aqa.org.uk/resources/science/specifications/AQA-8464-SP-2016.PDF">http://filestore.aqa.org.uk/resources/science/specifications/AQA-8464-SP-2016.PDF</a></p>
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