

## Curriculum Area: Year 11 Separate sciences

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>Organisation</p> <p>Infection and response</p> <p>Bioenergetics</p> <p>Ecology</p>	<p>Students will be awarded separate GCSEs for each of the sciences 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 50% of the GCSE grade.</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>Revision guides that contain exam style questions can be ordered through school.</p> <p>Monitor and support the completion of your child’s homework. Use:- <a href="http://www.bbc.co.uk/education/subjects/z9ddmp3">http://www.bbc.co.uk/education/subjects/z9ddmp3</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/biology/specifications/AQA-8461-SP-2016.PDF">http://filestore.aqa.org.uk/resources/biology/specifications/AQA-8461-SP-2016.PDF</a></p>

	There are 10 biology required practical investigations that are completed throughout the course which there may be questions about in the terminal examinations.	
<b>Chemistry</b>  Atomic structure and the periodic table  Bonding, structure and the properties of matter  Quantitative chemistry  The rate and Extent of chemical change	Students will be awarded separate GCSEs for each of the sciences 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 50% of the GCSE grade.  Paper 1 :- Chemistry topics 1–5: Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry; Chemical changes; and Energy changes.  Paper 2 :- Chemistry topics 6–10: The rate and extent of chemical change; Organic chemistry; Chemical analysis; Chemistry of the atmosphere; and Using resources.  Additionally students will study mathematical and working scientifically skills throughout all units.	Revision guides that contain exam style questions can be ordered through school.  Monitor and support the completion of your child’s homework. 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.  Exam specification  <a href="http://filestore.aqa.org.uk/resources/chemistry/specifications/AQA-8462-SP-2016.PDF">http://filestore.aqa.org.uk/resources/chemistry/specifications/AQA-8462-SP-2016.PDF</a>

	There are 8 chemistry required practical investigations that are completed throughout the course which there may be questions about in the terminal examinations.	
<b>Physics</b>  Forces  Electricity  Energy  Magnetism and electromagnetism	Students will be awarded separate GCSEs for each of the sciences 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 50% of the GCSE grade.  Paper 1 :- Physics topics 1–4: Energy; Electricity; Particle model of matter; and Atomic structure.  Paper 2 :- Physics topics 5–8: Forces; Waves; Magnetism and electromagnetism; and Space physics  Additionally students will study mathematical and working scientifically skills throughout all units.  There are 10 physics required practical investigations that are completed throughout	Revision guides that contain exam style questions can be ordered through school.  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>  Support you child after the completion of assessments.  Exam specification  <a href="http://filestore.aqa.org.uk/resources/physics/specifications/AQA-8463-SP-2016.PDF">http://filestore.aqa.org.uk/resources/physics/specifications/AQA-8463-SP-2016.PDF</a>

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