

**Curriculum Area: Additional Science Year: 11  
2015/2016**

Topics	Year Curriculum	How you can support learning at home, eg. Books, websites, family learning through visits.
Module 1 <b>B3 Living and Growing</b> a Molecules of life b Proteins and mutations c Respiration d Cell division e The circulatory system f Growth and development g New genes for old h Cloning	This is an Additional Science Unit. The outcomes in this unit are aimed at furthering the Scientific knowledge of pupils and should enable an A level Standard to be accessed. It is assessed by 2 exams in the summer and a piece of Controlled assessment that has to be completed in School. The topics changes yearly and always coincide with one of the topics displayed in the first column. Exam 1 is worth 35% exam 2 is worth 40% and the Controlled Assessment is worth 25% of the total.	Purchase the revision guides and question booklets that are advertised and sold by the school (These cover all Core Y10 and Additional Units).  Monitor and support the completion of your child's homework.  Use:- <a href="http://www.bbc.co.uk/schools/gcsebitesize/science/add_ocr_gateway/">http://www.bbc.co.uk/schools/gcsebitesize/science/add_ocr_gateway/</a>  Support you child after the completion of the end of Unit tracking.
Module 2 <b>C3 Chemical Economics</b> a Rate of reaction (1) b Rate of reaction (2) c Rate of reaction (3) d Reacting masses e Percentage yield and atom economy f Energy g Batch or continuous? h Allotropes of carbon and nanochemistry	This is an Additional Science Unit. The outcomes in this unit are aimed at furthering the Scientific knowledge of pupils and should enable an A level Standard to be accessed. It is assessed by 2 exams in the summer and a piece of Controlled assessment that has to be completed in School. The topics changes yearly and always coincide with one of the topics displayed in the first column. Exam 1 is worth 35% exam 2 is worth 40% and the Controlled Assessment is worth 25% of the total.	Purchase the revision guides and question booklets that are advertised and sold by the school (These cover all Core Y10 and Additional Units).  Monitor and support the completion of your child's homework.  Use:- <a href="http://www.bbc.co.uk/schools/gcsebitesize/science/add_ocr_gateway/">http://www.bbc.co.uk/schools/gcsebitesize/science/add_ocr_gateway/</a>  Support you child after the completion of the end of Unit tracking.
Module 3 <b>P3 Forces For Transport</b> a Speed b Changing speed	This is an Additional Science Unit. The outcomes in this unit are aimed at furthering the Scientific knowledge of pupils and should enable an A level Standard to be accessed. It is assessed by 2	Purchase the revision guides and question booklets that are advertised and sold by the school (These cover all Core Y10 and Additional Units).

<p>c Forces and motion  d Work and power  e Energy on the move  f Crumple zones  g Falling safely  h The energy of games and theme rides</p>	<p>exams in the summer and a piece of Controlled assessment that has to be completed in School. The topics changes yearly and always coincide with one of the topics displayed in the first column. Exam 1 is worth 35% exam 2 is worth 40% and the Controlled Assessment is worth 25% of the total.</p>	<p>Monitor and support the completion of your child's homework.</p> <p>Use:-  <a href="http://www.bbc.co.uk/schools/gcsebitesize/science/add_ocr_gateway/">http://www.bbc.co.uk/schools/gcsebitesize/science/add_ocr_gateway/</a></p> <p>Support you child after the completion of the end of Unit tracking.</p>
<p>Module 4  <b>B4 It's a Green World</b>  a Ecology in the local environment  b Photosynthesis  c Leaves and photosynthesis  d Diffusion and osmosis  e Transport in plants  f Plants need minerals  g Decay  h Farming</p>	<p>This is an Additional Science Unit. The outcomes in this unit are aimed at furthering the Scientific knowledge of pupils and should enable an A level Standard to be accessed. It is assessed by 2 exams in the summer and a piece of Controlled assessment that has to be completed in School. The topics changes yearly and always coincide with one of the topics displayed in the first column. Exam 1 is worth 35% exam 2 is worth 40% and the Controlled Assessment is worth 25% of the total.</p>	<p>Purchase the revision guides and question booklets that are advertised and sold by the school (These cover all Core Y10 and Additional Units).</p> <p>Monitor and support the completion of your child's homework.</p> <p>Use:-  <a href="http://www.bbc.co.uk/schools/gcsebitesize/science/add_ocr_gateway/">http://www.bbc.co.uk/schools/gcsebitesize/science/add_ocr_gateway/</a></p> <p>Support you child after the completion of the end of Unit tracking.</p>
<p>Module 5  <b>C4 The Periodic Table</b>  a Atomic structure  b Ionic bonding  c The Periodic Table and covalent bonding  d The Group 1 elements  e The Group 7 elements  f Transition elements  g Metal structure and properties  h Purifying and testing water</p>	<p>This is an Additional Science Unit. The outcomes in this unit are aimed at furthering the Scientific knowledge of pupils and should enable an A level Standard to be accessed. It is assessed by 2 exams in the summer and a piece of Controlled assessment that has to be completed in School. The topics changes yearly and always coincide with one of the topics displayed in the first column. Exam 1 is worth 35% exam 2 is worth 40% and the Controlled Assessment is worth 25% of the total.</p>	<p>Purchase the revision guides and question booklets that are advertised and sold by the school (These cover all Core Y10 and Additional Units).</p> <p>Monitor and support the completion of your child's homework.</p> <p>Use:-  <a href="http://www.bbc.co.uk/schools/gcsebitesize/science/add_ocr_gateway/">http://www.bbc.co.uk/schools/gcsebitesize/science/add_ocr_gateway/</a></p> <p>Support you child after the completion of the end of Unit tracking.</p>



<p>Module 6</p> <p><b><u>P4 Radiation for Life</u></b></p> <p>a Sparks</p> <p>b Uses of electrostatics</p> <p>c Safe electricals</p> <p>d Ultrasound</p> <p>e What is radioactivity?</p> <p>f Uses of radioisotopes</p> <p>g Treatment</p> <p>h Fission and fusion</p>	<p>This is an Additional Science Unit. The outcomes in this unit are aimed at furthering the Scientific knowledge of pupils and should enable an A level Standard to be accessed. It is assessed by 2 exams in the summer and a piece of Controlled assessment that has to be completed in School. The topics changes yearly and always coincide with one of the topics displayed in the first column. Exam 1 is worth 35% exam 2 is worth 40% and the Controlled Assessment is worth 25% of the total.</p>	<p>Purchase the revision guides and question booklets that are advertised and sold by the school (These cover all Core Y10 and Additional Units).</p> <p>Monitor and support the completion of your child's homework.</p> <p>Use:-  <a href="http://www.bbc.co.uk/schools/gcsebitesize/science/addocr_gateway/">http://www.bbc.co.uk/schools/gcsebitesize/science/addocr_gateway/</a></p> <p>Support you child after the completion of the end of Unit tracking.</p>
--	---	--