

**Curriculum Area: Triple Award Science Year: 11
2015/2016**

Topics	Year Curriculum	How you can support learning at home, eg. Books, websites, family learning through visits.
Module 1 <u>B4 It's a Green World</u> 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	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 Biology exams in the summer and a piece of Biology 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:- http://www.bbc.co.uk/schools/gcsebitesize/science/triple_ocr_gateway/ Support you child after the completion of the end of Unit tracking.
Module 2 <u>C4 The Periodic Table</u> 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	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 Chemistry exams in the summer and a piece of Chemistry 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:- http://www.bbc.co.uk/schools/gcsebitesize/science/triple_ocr_gateway/ Support you child after the completion of the end of Unit tracking.
Module 3 <u>P4 Radiation for Life</u> a Sparks	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	Purchase the revision guides and question booklets that are advertised and sold by the school (These cover all Core Y10 and Additional Units).

<p>b Uses of electrostatics c Safe Electricals d Ultrasound e What is radioactivity? f Uses of radioisotopes g Treatment h Fission and fusion</p>	<p>Standard to be accessed. It is assessed by 2 Physics exams in the summer and a piece of Physics 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:- http://www.bbc.co.uk/schools/gcsebitesize/science/triple_ocr_gateway/</p> <p>Support you child after the completion of the end of Unit tracking.</p>
<p>Module 4 B5 The Living Body a Skeletons b Circulatory systems and the cardiac cycle c Running repairs d Respiratory systems e Digestion f Waste disposal g Life goes on h Growth and repair</p>	<p>This Unit is only completed by Triple Science candidates and is aimed at stretching and furthering the Scientific knowledge of all higher ability pupils. It is assessed by 2 Biology exams in the summer and a piece of Biology 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:- http://www.bbc.co.uk/schools/gcsebitesize/science/triple_ocr_gateway/</p> <p>Support you child after the completion of the end of Unit tracking.</p>
<p>Module 5 C5 How Much (Quantitative Analysis) a Moles and molar mass b Percentage composition and empirical formula c Quantitative analysis d Titrations e Gas volumes f Equilibria g Strong and weak acids h Ionic equations and precipitation</p>	<p>This Unit is only completed by Triple Science candidates and is aimed at stretching and furthering the Scientific knowledge of all higher ability pupils. It is assessed by 2 Chemistry exams in the summer and a piece of Chemistry 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:- http://www.bbc.co.uk/schools/gcsebitesize/science/triple_ocr_gateway/</p>

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<p>Module 6</p> <p><u>P5 Space for Reflection</u></p> <p>a Satellites, gravity and circular motion</p> <p>b Vectors and equations of motion</p> <p>c Projectile motion</p> <p>d Action and reaction</p> <p>e Satellite communication</p> <p>f Nature of waves</p> <p>g Refraction of waves</p> <p>h Optics</p>	<p>This Unit is only completed by Triple Science candidates and is aimed at stretching and furthering the Scientific knowledge of all higher ability pupils. It is assessed by 2 Physics exams in the summer and a piece of Physics 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:- http://www.bbc.co.uk/schools/gcsebitesize/science/triple_ocr_gateway/</p> <p>Support you child after the completion of the end of Unit tracking.</p>
<p>Module 7</p> <p><u>B6 Beyond the Microscope</u></p> <p>a Understanding microbes</p> <p>b Harmful microorganisms</p> <p>c Useful microorganisms</p> <p>d Biofuels</p> <p>e Life in soil</p> <p>f Microscopic life in water</p> <p>g Enzymes in action</p> <p>h Gene technology</p>	<p>This Unit is only completed by Triple Science candidates and is aimed at stretching and furthering the Scientific knowledge of all higher ability pupils. It is assessed by 2 Biology exams in the summer and a piece of Biology 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:- http://www.bbc.co.uk/schools/gcsebitesize/science/triple_ocr_gateway/</p> <p>Support you child after the completion of the end of Unit tracking.</p>
<p>Module 8</p> <p><u>C6 Chemistry Out There</u></p> <p>a Electrolysis</p>	<p>This Unit is only completed by Triple Science candidates and is aimed at stretching and furthering the Scientific knowledge of all higher</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>b Energy transfers – fuel cells c Redox reactions d Alcohols e Depletion of the ozone layer f Hardness of water g Natural fats and oils h Detergents</p>	<p>ability pupils. It is assessed by 2 Chemistry exams in the summer and a piece of Chemistry 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:- http://www.bbc.co.uk/schools/gcsebitesize/science/triple_ocr_gateway/</p> <p>Support you child after the completion of the end of Unit tracking.</p>
<p>Module 9 <u>P6 Electricity for Gadgets</u> a Resisting b Sharing c It’s logical d Even more logical e Motoring f Generating g Transforming h Charging</p>	<p>This Unit is only completed by Triple Science candidates and is aimed at stretching and furthering the Scientific knowledge of all higher ability pupils. It is assessed by 2 Physics exams in the summer and a piece of Physics 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:- http://www.bbc.co.uk/schools/gcsebitesize/science/triple_ocr_gateway/</p> <p>Support you child after the completion of the end of Unit tracking.</p>

