

Curriculum Plan 2014/15

Subject: Science

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2																				
<b>Ks3 Science</b>	In Years 7 and 8 students follow a balanced Science course based around the QCA scheme of work. The modular organisation of the course allows student attainment to be regularly assessed by end of unit assessments. Before starting Year 7/8 Topics in Science, a 'Science is' skills course is delivered with numeracy opportunities and skill based tasks. How Science Works APP tasks will be completed in year 7 and 8. The Science department offers a regular Science Club for Year 7 and 8 students.																									
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	Physics	<b>P1-Light</b> Luminous/ non-luminous, reflection, refraction and splitting of light						
		<b>P1-Space</b> Solar system, satellites, phases of the moon, the seasons and eclipses, gravity						

**9** Science in Year 9 is based on a spiral curriculum which enables students to study similarly themed topics throughout KS4. This is to ensure a solid foundation in readiness for GCSE success as the topics studied in Key Stage 4 are revisited, consolidated and developed further. Whilst there is a strong emphasis on knowledge acquisition, there is an equally essential focus on skill development in a scientific context.

**Ks4 Science** At GCSE level all students cover the science curriculum through the Edexcel science syllabus. Students study Separate Sciences; Biology, Chemistry and Physics or Core and Additional Science.

<b>10</b>	<b>EDEXCEL</b>	<b>GCSE Core Science Key-concepts &amp; Skills</b>	<b>EDEXCEL</b>	<b>GCSE Core Science Controlled Assessment Task</b>	<b>EDEXCEL</b>	<b>GCSE Additional Science Controlled Assessment Task</b>
	B1 Biology	Homeostasis Nervous System Genetics Variation Evolution Classification Interdependence	<b>EDEXCEL</b>	<b>GCSE Additional Science</b>	<b>EDEXCEL</b>	<b>GCSE Additional Science</b>
	C1 Chemistry	Crude Oil Fractional distillation Cracking Combustion Polymers Rocks Limestone Acids & Neutralisation Electrolysis Earth's Early Atmosphere Word & Balancing equations	B2 Biology	Topic 3: Evolution, Cell division, Blood & Tissues, Structure & function of the heart, Digestive system Digestive enzymes	C2 Chemistry	Topic 6: Chemical Calculations - Relative masses, Empirical Formula
			P2 Physics	Topic 4: Alkali Metals, Halogens, Noble gases	P2 Physics	Topic 5 & 6: Alpha, Beta & Gamma Radiation, Nuclear chain reactions, Nuclear Fusion, Advantages & disadvantages of Nuclear Power, Background Radiation, Radioactive Isotope
					<b>Year 10 Mock Exams in:</b> <b>GCSE Core Science B1, C1, P1</b> <b>GCSE Additional Science B2, C2, P2</b>	

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	<p>P1 Physics e.g. The Universe</p> <table border="1" data-bbox="203 209 790 635"> <thead> <tr> <th>EDEXCEL</th> <th>GCSE Additional Science - FOUNDATION</th> </tr> </thead> <tbody> <tr> <td>B2 Biology</td> <td>Topic 2: Cells, DNA, Mitosis and Enzymes</td> </tr> <tr> <td>C2 Chemistry</td> <td>Topic 1 &amp; 2: The Atom, Ionic Bonding, Solubility, Precipitates, Cations &amp; Anions</td> </tr> <tr> <td>P2 Physics</td> <td>E.g. Topics 3, 4, 5 incl. Distance-Time Graphs, Velocity-Time Graphs, Resultant Forces, Terminal Velocity, Car-stopping distances Momentum &amp; Energy, Work done, Alpha, Beta &amp; Gamma Radiation, Nuclear chain reactions, Nuclear Fusion, Advantages &amp; disadvantages of Nuclear Power, Background Radiation, Radioactive Isotope</td> </tr> </tbody> </table> <p><b>Preparation for Year 11 Mock Exams in: GCSE Core Science B1, C1, P1 GCSE Additional Science B2, C2, P2</b></p>	EDEXCEL	GCSE Additional Science - FOUNDATION	B2 Biology	Topic 2: Cells, DNA, Mitosis and Enzymes	C2 Chemistry	Topic 1 & 2: The Atom, Ionic Bonding, Solubility, Precipitates, Cations & Anions	P2 Physics	E.g. Topics 3, 4, 5 incl. Distance-Time Graphs, Velocity-Time Graphs, Resultant Forces, Terminal Velocity, Car-stopping distances Momentum & Energy, Work done, Alpha, Beta & Gamma Radiation, Nuclear chain reactions, Nuclear Fusion, Advantages & disadvantages of Nuclear Power, Background Radiation, Radioactive Isotope	<table border="1" data-bbox="831 209 1400 339"> <thead> <tr> <th colspan="2">EDEXCEL GCSE Core Science Revision – FOUNDATION</th> </tr> </thead> <tbody> <tr> <td>B1</td> <td>Biology Personalised Revision of Key-concepts</td> </tr> <tr> <td>C1</td> <td>Chemistry Personalised Revision of Key-concepts</td> </tr> <tr> <td>P1</td> <td>Physics Personalised Revision of key-concepts</td> </tr> </tbody> </table> <table border="1" data-bbox="831 376 1413 823"> <thead> <tr> <th>EDEXCEL</th> <th>GCSE Additional Science - FOUNDATION</th> </tr> </thead> <tbody> <tr> <td>B2 Biology</td> <td>Aerobic &amp; Anaerobic Respiration, Photosynthesis, Osmosis &amp; Transpiration Topic 3: Evolution, Cell division, Blood &amp; Tissues, Structure &amp; function of the heart, Digestive system Digestive enzymes</td> </tr> <tr> <td>C2 Chemistry</td> <td>Topic 3, 4 &amp; 6: Covalent Bonding, Separating Techniques, Alkali Metals, Halogens, Noble gases, Relative masses, Empirical Formula</td> </tr> <tr> <td>P2 Physics</td> <td>E.g. Topic 1 &amp; 2 incl. Distance-Time Graphs, Velocity-Time Graphs, Resultant Forces, Terminal Velocity, Car-stopping distances</td> </tr> </tbody> </table>	EDEXCEL GCSE Core Science Revision – FOUNDATION		B1	Biology Personalised Revision of Key-concepts	C1	Chemistry Personalised Revision of Key-concepts	P1	Physics Personalised Revision of key-concepts	EDEXCEL	GCSE Additional Science - FOUNDATION	B2 Biology	Aerobic & Anaerobic Respiration, Photosynthesis, Osmosis & Transpiration Topic 3: Evolution, Cell division, Blood & Tissues, Structure & function of the heart, Digestive system Digestive enzymes	C2 Chemistry	Topic 3, 4 & 6: Covalent Bonding, Separating Techniques, Alkali Metals, Halogens, Noble gases, Relative masses, Empirical Formula	P2 Physics	E.g. Topic 1 & 2 incl. Distance-Time Graphs, Velocity-Time Graphs, Resultant Forces, Terminal Velocity, Car-stopping distances	<table border="1" data-bbox="1509 97 2092 464"> <tbody> <tr> <td>Biology</td> <td>Preparation for B2 FINAL Exam on 5th June 2015</td> </tr> <tr> <td>C2 Chemistry</td> <td>C2 Past-Papers &amp; Revision Preparation for C2 FINAL Exam on 9th June 2015</td> </tr> <tr> <td>P2 Physics</td> <td>Topic 6: Background Radiation, Radioactive Isotope, Dangers of Ionising Radiation P2 Past-Papers &amp; Revision Preparation for P2 FINAL Exam on 12th June 2015</td> </tr> </tbody> </table>	Biology	Preparation for B2 FINAL Exam on 5th June 2015	C2 Chemistry	C2 Past-Papers & Revision Preparation for C2 FINAL Exam on 9th June 2015	P2 Physics	Topic 6: Background Radiation, Radioactive Isotope, Dangers of Ionising Radiation P2 Past-Papers & Revision Preparation for P2 FINAL Exam on 12th June 2015
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12	At Advanced level, students can choose to study Biology, Chemistry or Physics. In addition we offer BTEC Level 3 in Applied Science.																																
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