

Science Yr 11	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic/Unit to be studied	Biology 2a	Biology 2b Chemistry 2a	Chemistry 2b	Physics 2a+b	Physics 2b	
Subject Content Outline	<b>B2.1 Cells and simple cell transport.</b> <b>B2.2 Tissues, organs and organ systems.</b> <b>B2.3 Photosynthesis</b> <b>B2.4 Organisms and their environment</b> <b>B2.5 Proteins – their functions and uses</b>	<b>B2.6 Aerobic and anaerobic respiration</b> <b>B2.7 Cell division and inheritance</b> <b>B2.8 Speciation</b> <b>C2.1 and C2.2 Structure and bonding and how structure influences the properties and uses of substances</b>	<b>C2.3 Atomic structure, analysis and quantitative.</b> <b>C2.4 Rates of Reaction.</b> <b>C2.5 Exothermic and endothermic reactions.</b> <b>C2. 6 Acids, bases and salts.</b> <b>C2.7 Electrolysis</b>	<b>P2.1 Forces and their effects</b> <b>P2.2.1 Forces and energy</b> <b>P2.3 Currents in electrical circuits</b> <b>P2.4 Using mains electricity safely and the power of</b>	<b>P2.5 What happens when radioactive substances decay, and the uses and dangers of their emissions</b> <b>P2.6 Nuclear fission and nuclear fusion</b>	
Aims/Assessment Objectives	AO1 Recall, select and communicate their knowledge and understanding of biology, chemistry and physics. AO2 Apply skills, knowledge and understanding of biology, chemistry and physics in practical and other contexts. AO3 Analyse and evaluate evidence, make reasoned judgements and draw conclusions based on evidence					
Assessment	1 hour External Exam Unit 2 – BL2FP or BL2HP		1 hour External Exam Unit 2 – CH2FP or CH2HP		1 hour External Exam Unit 2 – PH2FP or PH2HP	
Cross curricular opportunities	Mathematics, ICT, English, History, Geography, Food Technology, Design Technology, Music, Drama, PE, Citizenship The faculty is highly committed to the provision of well-structured extracurricular opportunities that develop key skills and extend pupil learning in fun, stimulating ways. We run our own STEM club which provides opportunities to inspire pupils in Science, Technology, Engineering and Mathematics. Pupils take part in exciting projects which gives them insight into the exciting career opportunities available in these areas.					
Social, Moral, Spiritual, Cultural	Wider issues (for example, spiritual, moral, ethical, social, legal, sustainable development, economic and cultural issues), including those relevant to the education of candidates at Key Stage 4, have been taken into account when preparing this specification. They will only form part of the assessment requirements where they are relevant to the specific content of the specification.					

Homework	Each lesson has a specific homework which either reinforces the core content or check learning through an individual timed exam question. Each individual homework is identified in the Faculty Curriculum Map for each lesson and should be recorded in pupil planners.					
	Doddle tasks Differentiated H/W tasks Completion of CGP workbook Practice exam questions	Doddle tasks Differentiated H/W tasks Completion of CGP workbook Practice exam questions	Doddle tasks Differentiated H/W tasks Completion of CGP workbook Practice exam questions	Doddle tasks Differentiated H/W tasks Completion of CGP workbook Practice exam questions	Doddle tasks Differentiated H/W tasks Completion of CGP workbook Practice exam questions	