



Eastbrook School

KS4 Curriculum Summary - Combined Science

Year 10		
Autumn term	Spring term	Summer term
Topics	Topics	Topics
B1- Cell Level Systems B2- Scaling up B3- Organism Level Systems C4 – Predicting and identifying reactions and products C5- Monitoring and controlling chemical reactions Maths skills and work skills	C6- Global Challenges P4-Waves and radioactivity P5-Energy P6- Global Challenges Maths skill and work skills	B4- Community level systems B5- Genes, inheritance and selection B6- Global challenges Maths skills and work skills
<p>Maths skills: decimal form, multiplication in standard form, ratios, percentages, fractions, significant figures, bar chart, histograms, sampling, probability, mean, median, mode, mathematical symbols, changing the subject of an equation, using units, converting between units, graph calculations, graph plotting, line of best fit, graph analysis, area and volume</p> <p>Working scientifically: applications of science, evaluating science applications, making decisions about applications of science, developing scientific methods and theories, scientific models, scientific questions, hypothesis, choosing variables to investigate, planning an investigation, obtaining precise data, repeatable and reproducible data, designing a results table, identifying outliers, drawing graphs, interpreting graphs, drawing conclusions, evaluating investigation, random errors, systematic errors and uncertainty.</p>		
Useful websites		
www.bbc.com/bitesize www.samlearning.com/ https://www.gcsepod.com/ https://www.kerboodle.com/ https://ocr.org.uk/qualifications/past-papers		
Other ways to support learning		
Revision book: students to use the revision book which is sold at a subsidised price from the department (CGP and Collins revision guides). Recommended textbooks – OCR Gateway GCSE Chemistry by Nigel Saunders; OCR Gateway GCSE Biology by Jo Locke; OCR Gateway GCSE Physics by Helen Reynolds Trip to Chase Nature Reserve for Ecological studies Russel group University visits for lectures and activities Greenwich Observatory and science museums Breakfast clubs; after school revision and targeted half term sessions.		

Year 11 – combined science

Autumn term	Spring term	Summer term													
Topics	Topics	Topics													
<p>B4- Community level systems B5-Genes, inheritance and selection B6- Global challenges <u>Revision and exam practice</u> P1, P2 and P3+ PAG (Practical Activity Group) C1,C2 and C3 + PAG Dec Mock Exam</p>	<p><u>Revision and exam practice</u> P4,P5 and P6 + PAG C4, C5 and C6 + PAG B1, B2 and B3 + PAG Easter Mock Exam (Biology, Physics and Chemistry)</p>	<p><u>Revision and exam practice</u> B4, B5 and B6 + PAG</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #90EE90;">COMBINED SCIENCE (BIOLOGY) J250</td> <td style="text-align: center;">B1-B3 +PAG</td> </tr> <tr> <td style="background-color: #90EE90;">COMBINED SCIENCE (BIOLOGY) J250</td> <td style="text-align: center;">B4-B6 +PAG</td> </tr> <tr> <td style="background-color: #ADD8E6;">COMBINED SCIENCE (CHEMISTRY) J250</td> <td style="text-align: center;">C1-C3 +PAG</td> </tr> <tr> <td style="background-color: #ADD8E6;">COMBINED SCIENCE (CHEMISTRY) J250</td> <td style="text-align: center;">C4-C6+PAG</td> </tr> <tr> <td style="background-color: #FFD700;">COMBINED SCIENCE (PHYSICS) J250</td> <td style="text-align: center;">P1-P3+PAG</td> </tr> <tr> <td style="background-color: #FFD700;">COMBINED SCIENCE (PHYSICS) J250</td> <td style="text-align: center;">P4-P5+PAG</td> </tr> </table>		COMBINED SCIENCE (BIOLOGY) J250	B1-B3 +PAG	COMBINED SCIENCE (BIOLOGY) J250	B4-B6 +PAG	COMBINED SCIENCE (CHEMISTRY) J250	C1-C3 +PAG	COMBINED SCIENCE (CHEMISTRY) J250	C4-C6+PAG	COMBINED SCIENCE (PHYSICS) J250	P1-P3+PAG	COMBINED SCIENCE (PHYSICS) J250	P4-P5+PAG
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