



GCSE Combined Science KS4 Curriculum Overview 2019 – 20
Science is life, life is science. Explore science. Discover science. Explain science.

Exam board and syllabus name: Pearson Edexcel GCSE (9-1) Combined Science (1SC0)		Coursework 0%		Final examination 100%
Year 9				
Term	Unit/topic	Knowledge	Skills	Assessment
Spring term 1	Biology 1, Chemistry 1	Cells and Enzymes, Atomic structure	Developing knowledge, using simple calculations, developing practical skills.	End of topic tests. Core Practicals.
Spring term 2	Biology 1, Physics 1	Cell transportation, Motion	Developing knowledge, using simple calculations, developing practical skills.	End of topic tests. Core Practicals.
Summer term 1	Biology 2, Chemistry 3	Neurology, States of Matter,	Developing knowledge, developing practical skills.	End of topic tests. Core Practicals.
Summer term 2	Biology 2, Physics 2	Mitosis and Stem cells, Motion and Forces	Developing knowledge, using simple calculations.	End of topic tests. Core Practicals.
Year 10				
Term	Unit/topic	Knowledge	Skills	Assessment
Autumn term 1	Biology 3, Chemistry 2, Physics 3	DNA and Genetics, Structure and Bonding, Conservation of Energy	Developing knowledge and applying knowledge to new situations, developing practical skills.	End of topic tests. Core Practicals.
Autumn term 2	Biology 4, Chemistry 4, Physics 4	Natural Selection, Acids and Alkali, Waves	Developing knowledge and applying knowledge to new situations, using simple calculations, interpreting and evaluating data, developing practical skills.	End of topic tests. Core Practicals.



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Spring term 1	Biology 4, Chemistry 4, Physics 4	Genetic modification, Acids and Alkali, Waves	Developing knowledge and applying knowledge to new situations, using simple calculations, interpreting and evaluating data, developing practical skills.	End of topic tests. Core Practicals.
Spring term 2	Biology 5, Chemistry 5a, Physics 5	Health and Disease, Chemical Calculations, Light and the EM Spectrum	Developing knowledge and applying knowledge to new situations, using more complex calculations, interpreting and evaluating data.	End of topic tests. Core Practicals.
Summer term 1	Biology 5, Chemistry 5a, Physics 5	Immunology, Electrolysis, Light and the EM Spectrum	Developing knowledge and applying knowledge to new situations, using simple calculations, mastering practical skills.	End of topic tests. Core Practicals. Practice Examination Paper.
Summer term 2	Biology 6, Chemistry 5a, Physics 6	Plant Science, Equilibria, Radioactivity	Developing knowledge and applying knowledge to new situations, using more complex calculations, interpreting and evaluating data, mastering practical skills.	End of topic tests. Core Practicals.
Year 11				
Term	Unit/topic	Knowledge	Skills	Assessment
Autumn term 1	Biology 7, Chemistry 7, Physics 7/ 8 AND	Hormones and Homeostasis Periodic Groups I, VII, O, Energy Forces,	Developing knowledge and applying knowledge to new situations,	End of topic tests. Core Practicals.



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	Physics 9	Electrical Circuits	using more complex calculations, interpreting and evaluating data, mastering practical skills.	
Autumn term 2	Biology 8, Chemistry 7, Physics 10/11	Exchange and transport, Rates of Reaction, Magnetism and EM Induction	Developing knowledge and applying knowledge to new situations, mastering practical skills using more complex calculations, interpreting and evaluating data.	End of topic tests. Core Practicals. Mock Paper 1.
Spring term 1	Biology 9, Chemistry 8, Physics 12	Ecological Sciences, Fuels, Particle model	Developing knowledge and applying knowledge to new situations, using simple calculations, interpreting and evaluating data, mastering practical skills.	End of topic tests. Core Practicals.
Spring term 2	Biology 9, Chemistry 8, Physics 13	Material Cycles, Earth Sciences, Forces and Matter	Developing knowledge and applying knowledge to new situations, using simple calculations, interpreting and evaluating data.	End of topic tests. Core Practicals. Mock Paper 2.
Summer term 1	Final preparation before the Summer Examinations			
Summer term 2	Study Leave			