

Combined Science Curriculum Grid



Examination Board: Edexcel

Further information:

https://qualifications.pearson.com/content/dam/pdf/GCSE/Science/2016/Specification/GCSE_CombinedScience_Spec.pdf

Additional Support: <https://www.senecalearning.com/>

<https://www.bbc.com/bitesize/examspecs/zqkww6f>

Combined Science GCSE		
Biology	Chemistry	Physics
<p>Topic 1 – Key concepts in Biology</p> <p>Topic 2 – Cells and control</p> <p>Topic 3 – Genetics</p> <p>Topic 4 – Natural selection and genetic modification</p> <p>Topic 5 – Health, disease and the development of medicines</p> <p>Topic 6 – Plant structures and their functions</p> <p>Topic 7 – Animal coordination, control and homeostasis</p> <p>Topic 8 – Exchange and transport in animals</p> <p>Topic 9 – Ecosystems and material cycles</p>	<p>Topic 1 – Key concepts in chemistry</p> <p>Topic 2 – States of matter and mixtures</p> <p>Topic 3 – Chemical changes</p> <p>Topic 4 – Extracting metals and equilibria</p> <p>Topic 6 – Groups in the periodic table</p> <p>Topic 7 – Rates of reaction and energy changes</p> <p>Topic 8 – Fuels and Earth science</p>	<p>Topic 1 – Forces and motion</p> <p>Topic 2 – Conservation of energy</p> <p>Topic 3 – Waves and the electromagnetic spectrum</p> <p>Topic 4 – Radioactivity</p> <p>Topic 6 – Electricity and circuits</p> <p>Topic 8 – Magnetism and electromagnetic induction</p> <p>Topic 9 - Matter</p>
Written Assessment		
<p>Students will sit 6 externally examined papers at the end of Year 11. All papers are out of 60 marks and are 1 hour and 10 minutes in length. Each paper contributes 16.67% of the Combined Science GCSE</p> <p>Paper 1: Biology 1 – Topics 1, 2, 3, 4 and 5 Paper 2: Biology 2 – Topics 1, 6, 7, 8 and 9 Paper 3: Chemistry 1 – Topics 1, 2, 3 and 4 Paper 4: Chemistry 2 – Topics 1, 6, 7 and 8 Paper 5: Physics 1 – Topics 1, 2, 3 and 4 Paper 6: Physics 2 – Topics 1, 2, 6, 8 and 9</p> <p>Each paper consists of a mixture of different question styles, including multiple-choice questions, short answer questions, calculations and extended open-response questions.</p>		
Year 10		
Autumn Term		
Biology Units		
CB1 – Overarching concepts in Biology		

CB2 – Cells and control

Chemistry Units

CC1 - States of Matter

CC2 – Separating mixtures of Substances

CC3 – Atomic Structure

CC4 – The Periodic Table

CC5 – Ionic Bonding

Physics Units

CP1 – Forces and motion

CP2 – Conservation of energy

Spring Term

Biology Units

CB3 - Genetics

CB4 – Natural selection and genetic modification

Chemistry Units

CC6 – Covalent Bonding

CC7 – Types of Substance

CC8 - Acids

Physics Units

CP3 – Waves and the electromagnetic spectrum

Summer Term

Biology Units

CB5 - Health, disease and the development of medicines

Chemistry Units

CC9 - Calculations involving masses

Physics Units

CP4 – Radioactivity

Year 11

Autumn Term

Biology Units

CB6 - Plant structures and their functions

CB7 - Animal coordination, control and homeostasis

Chemistry Units

CC10 - Electrolytic processes

CC11 - Obtaining and using metals

CC12 - Reversible reactions and equilibria

CC13 - Groups in the periodic table

Physics Units

CP6 – Electricity and circuits

CP8 – Magnetism and electromagnetic induction

Spring Term

Biology Units

CB8 - Exchange and transport in animals

CB9 -Ecosystems and material cycles

Chemistry Units

CC14 - Rates of reaction

CC15 - Heat changes in chemical reactions

CC16 – Fuels

Physics Units

CP9 - Matter

Summer Term

Biology Units

CB9 -Ecosystems and material cycles (cont.)

Revision

Chemistry Units

CC17 – Earth and atmospheric science

Revision

Physics Units

Revision