

Science Department

Curriculum Overview – Year 10- Combined Science

The Big Picture:

Year 10 will study: How we can prevent the spread of disease, how plants photosynthesise and how organisms reproduce and pass on their characteristics. How energy is conserved in reactions, how products are made and the rate at which they are produced. How forces affect the motion of objects, how electricity transfers energy and the dangers and applications of radiation emissions.

AO1: Demonstrate knowledge and understanding of the topic.

AO2: Apply your knowledge and understanding of the topic and use your scientific ideas.

AO3: Analyse information in a scientific context and use your understanding to make predictions and evaluations.

<https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464>

<p>Term 1: Organising animals and plants, chemical bonding and structure, electrical circuits Green Task: Bonding, electrical circuits Assessment Objectives covered - AO1, AO2, AO3</p>	<p>Term 4: Respiration, reproduction, electrolysis, radioactivity Green Task: Respiration, electrolysis, radioactive emissions Assessment Objectives covered - AO1, AO2, AO3</p>
<p>Term 2: Communicable diseases + preventing disease, chemical calculations, mains electricity Green Task: Chemical calculations, mains electricity, disease Assessment Objectives covered - AO1, AO2, AO3</p>	<p>Term 5: Variation & evolution, energy changes, motion Green Task: Evolution, exothermic and endothermic changes, motion Assessment Objectives covered - AO1, AO2, AO3</p>
<p>Term 3: Non-Communicable disease, photosynthesis, chemical changes, the particle model and internal energy Green Task: Photosynthesis, making salts Assessment Objectives covered - AO1, AO2, AO3</p>	<p>Term 6: Genetics, rates of reaction, forces and motion Green Task: Rates, Newton's laws Assessment Objectives covered - AO1, AO2, AO3</p>