

Year	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6
7	See Physic/Chemistry Curriculum Overview	<p>Topic: Cells</p> <p>Resources: PP, Practical Activities, Handouts, KS3 Book 1.</p> <p>Focus: Introduction of cells, Understanding plant and animal cells and function of organelles.</p> <p>Outcome: Practical Assessment.</p> <p>Duration: 6 lessons</p>	<p>Topic: Respiration and Photosynthesis</p> <p>Resources: PP, Practical Activities, Handouts, KS3 Book 2.</p> <p>Focus: Introducing photosynthesis and how it can be affected by factors. Discovering the differences between different respiration reactions.</p> <p>Outcome: End of Term Assessment</p> <p>Duration: 5 lessons</p>	<p>Topic: Human Reproduction</p> <p>Resources: PP, Practical Activities, Handouts, KS3 Book 1.</p> <p>Focus: Strengthening knowledge of human reproduction and expanding on knowledge of how variation is caused.</p> <p>Outcome: Topic quiz.</p> <p>Duration: 4 lessons</p> <p>Topic: Plant Reproduction</p> <p>Resources: PP, Practical Activities, Handouts, KS3 Book 1.</p> <p>Focus: Exploring the way in which plants reproduce looking at seed dispersal and fertilisation.</p> <p>Outcome: End of Topic.</p> <p>Duration: 3 lessons</p>	<p>Topic: Interdependence</p> <p>Resources: PP, Practical Activities, Handouts, KS3 Book 1.</p> <p>Focus: Understanding food chains and food webs with relation of energy and the ecological balance of animals in ecosystems.</p> <p>Outcome: Practical Assessment.</p> <p>Duration: 5 lessons</p>	<p>Topic: Ecosystems</p> <p>Resources: PP, Practical Activities, Handouts, KS3 Book 2.</p> <p>Focus: Introducing how different parts of an ecosystem are interrelated and can impact on one another.</p> <p>Outcome: End of Term Assessment.</p> <p>Duration: 5 lessons</p>

<p>8</p>	<p>Topic: Digestion</p> <p>Resources: PP, Practical Activities, Handouts, KS3 Book 2</p> <p>Focus: Further knowledge of digestion process and the organs involved in this process.</p> <p>Outcome: Practical Assessment.</p> <p>Duration: 6 lessons</p>	<p>Topic: Breathing</p> <p>Resources: PP, Practical Activities, Handouts, KS3 Book 2</p> <p>Focus: To deepen knowledge on the process of breathing, the mechanism involved in breathing and respiratory system.</p> <p>Outcome: Practical Assessment.</p> <p>Duration: 5 lessons</p>	<p>Topic: Movement</p> <p>Resources: PP, Practical activities, Handouts, KS3 Book 2</p> <p>Focus: Investigating how different organs and tissue within the human body allow the human body to move.</p> <p>Outcome: End of Term Assessment.</p> <p>Duration: 4 lessons</p>	<p>See Physics Curriculum Overview</p>	<p>Topic: Inheritance</p> <p>Resources: PP, Practical Activities, Handouts, KS3 Book 2.</p> <p>Focus: Expanding on knowledge of reproduction and looking at genetics and genetic disorders.</p> <p>Outcome: Practical Assessment.</p> <p>Duration: 4 lessons</p>	<p>Topic: Evolution</p> <p>Resources: PP, Practical Activities, Handouts, KS3 Book 2.</p> <p>Focus: Looking at natural selection to understand the importance of diversity within an ecosystem and relating to evolution.</p> <p>Outcome: End of Term Assessment.</p> <p>Duration: 4 lessons</p>
<p>9</p>	<p>See Physics Overview</p>	<p>See Physics Overview</p>	<p>See Chemistry Overview</p>	<p>See Chemistry Overview</p>	<p>Topic: Forensics</p> <p>Resources: PowerPoints, Practical Activities, Handouts.</p> <p>Focus: An in-depth look into the scientific concepts, skills and techniques used in the world of forensics. Pupils will apply their learnt techniques to forensic scenarios.</p> <p>Outcome: Practical Assessment and End of Term Assessment.</p> <p>Duration: 12 lessons</p>	<p>Topic: Into the Wild</p> <p>Resources: PowerPoints, Practical Activities, Handouts.</p> <p>Focus: Exploring how different areas of an ecosystem relate to each other. Discovering how small changes can lead to significant impacts across the whole ecosystem and how this can impact humans.</p> <p>Outcome: Practical Assessment and End of Term Assessment.</p> <p>Duration: 12 lessons</p>

Biology Curriculum Overview

<p>9 ELC</p>	<p>Topic: Human Body</p> <p>Resources: PowerPoints, Practical Activities, Handouts, Biology Book</p> <p>Focus: Deepen and develop knowledge embedded through KS3 looking at cells, human body, organ systems, transmission of diseases, reproductive system and fertility control.</p> <p>Outcome: Practical assessment on energy from food and topic test.</p> <p>Duration: 14 lessons</p>	<p>See Chemistry Overview</p>	<p>See Physics Overview</p>	<p>Topic: Environment, evolution and inheritance</p> <p>Resources: PowerPoints, Practical Activities, Handouts, Biology Book.</p> <p>Focus: Develop and deepen knowledge embedded in KS3 of photosynthesis, food chains, pollution and the effects on ecosystems, evolution and linking to natural selection. Also looking at human reproduction in more depth to link to genetics.</p> <p>Outcome: Practical assessment on pollution and effect on plant growth & topic test.</p> <p>Duration: 13 lessons</p>	<p>See Chemistry Overview</p>	<p>See Physics Overview</p>
<p>10</p>	<p>See Chemistry Overview</p>	<p>Topic: Cell Biology Review</p> <p>Resources: PowerPoints, Practical Activities, Handouts, Biology Book</p> <p>Focus: Further knowledge of cells in greater depth with relation to specialised cells and transport in and out of cells.</p> <p>Outcome: End of Term Assessment, RA 1 Microscopes, RA 2 Antiseptics and Antibiotics (Separate science only) and RA 3 Osmosis.</p> <p>Duration: 6 lessons (F/H/Sep)</p>	<p>Topic: Organisation Review</p> <p>Resources: PowerPoints, Practical Activities, Handouts, Biology Book</p> <p>Focus: To deepen understanding of human body and plant organs. By looking at organ systems, organ functions, healthy lifestyle and plant organs and their roles.</p> <p>Outcome: End of Term Assessment, RA 4 Food Tests and RA 5 Enzymes.</p> <p>Duration: 6 lessons</p>	<p>Topic: Infection and Response</p> <p>Resources: PowerPoints, Practical Activities, Handouts, Biology Book.</p> <p>Focus: Understand what microorganisms can cause infection and disease in animals and plants. Along with how organisms respond to a microorganism invasion.</p> <p>Outcome: End of Term Assessment.</p> <p>Duration: 14 lessons</p>	<p>Topic: Bioenergetics</p> <p>Resources: PowerPoints, Practical Activities, Handouts, Biology Book.</p> <p>Focus: Deepening students understanding of energy transfer for plants and animals. Deepening an understanding of photosynthesis, aerobic and anaerobic respiration. Learning about the factors that can affect energy transfers in living things.</p> <p>Outcome: End of Term Assessment, and RA 6 Photosynthesis.</p> <p>Duration: 10 lessons</p>	<p>See Physics Overview</p>

<p>11</p>	<p>Topic: Ecology</p> <p>Resources: PowerPoints, Practical Activities, Handouts, Biology Book.</p> <p>Focus: Exploring how different areas of an ecosystem relate to each other. Discovering how small changes can lead to significant impacts across the whole ecosystem and how this can impact humans.</p> <p>Outcome: End of Term Assessment.</p> <p>Duration: 16 lessons</p>	<p>See Chemistry/ Physics Overviews</p>	<p>See Chemistry/ Physics Overview</p>	<p>See Chemistry/ Physics Overviews</p>	<p>See Chemistry/ Physics Overviews</p>	<p>See Chemistry Overview</p>
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