

Subject Overview Science – Year 7

Year 7 science focuses on introducing key scientific concepts which form the building blocks needed for years 8 to 11.
In year 7 we introduce enquiry skills required to explore the practical side of science.

	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Knowledge & Skills	<p>Unit 1 Working Scientifically (13 Lessons) Learn key enquiry skills, use scientific equipment, and collect and present data.</p> <p>Unit 2 CSI (15 Lessons) Apply scientific skills to solve a simulated crime in the science department.</p>	<p>Unit 3 States of Matter and Separating Mixtures (14 Lessons) Investigate states of matter and use practical methods to separate mixtures.</p> <p>Unit 4 Movement and Cells (12 Lessons) Explore the skeletal system, movement, microscopes, and how substances move in cells.</p>	<p>Unit 5 Objects in Motion (10 Lessons) Study motion through calculations and distance-time graph interpretation.</p> <p>Unit 6 Organisation in Ecosystem (10 Lessons) Examine ecosystems, food chains, and data to understand organism interactions.</p>	<p>Unit 7 Earth as a Planet (8 Lessons) Investigate Earth's structure, geological changes, and model planet behaviour.</p> <p>Unit 8 Energy Resources (8 Lessons) Explore energy transfers using equations, diagrams, and correct scientific units.</p>	<p>Unit 9 Variation and Reproduction (10 Lessons) Study variation, reproduction, and differences between organisms.</p> <p>Unit 10 Simple Chemical Reactions (10 Lessons) Perform chemical reactions safely and evaluate associated hazards and risks.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">Assessment 1</p> <ul style="list-style-type: none"> • Scientific skills • States of matter & separating mixtures • Movement and cells • Objects in Motion </div>	<p>Unit 11 Sound and Light (14 Lessons) Compare sound and light waves by analysing properties and patterns.</p> <p>Unit 12 Electrical Circuits (10 Lessons) Build simple circuits, explore electrical models, and calculate key values using equations.</p>
Beyond The Curriculum	<p>Places to visit Eureka (Halifax) National Science and media museum (Bradford)</p> <p>Reading <i>Whizz Pop Bang: Issues on forensic science</i> <i>"The Young Investigators' Guide to Forensic Science"</i> by Vicki Cobb</p>	<p>Places to Visit Thackray Museum of Medicine (Leeds)</p> <p>Websites Cells Alive! Interactive Cell Models</p> <p>Reading <i>"Look Inside: Your Body"</i> by Louie Stowell</p>	<p>Places to Visit Tropical World (Leeds)</p> <p>Websites YouTube: Motion in a Straight Line: Crash Course Physics Nature Detectives - Activities and Resources - Woodland Trust</p>	<p>Places to Visit Tolson Museum (Huddersfield)</p> <p>Websites Octopus Energy: kids zone Youtube: Everything You Need to Know About Planet Earth</p> <p>Reading <i>"Energy Island"</i> Allan Drummond</p>	<p>Places to Visit Yorkshire Wildlife Park Centre for Life (Newcastle)</p> <p>Websites YouTube: What triggers a chemical reaction? Kitchen Chemistry</p> <p>Reading <i>"Genes and DNA"</i> Anna Claybourne</p>	<p>Places to visit Eureka Science + Discovery (Liverpool)</p> <p>Websites Marvin and Milo Science Snacks Exploratorium</p> <p>Reading <i>"Making a Circuit (It's Electric!)"</i> Chris Oxlade</p>