

Scheme of Work Outline – Year 7

Autumn 1 Unit Working Scientifically Unit B1 Biology	Autumn 2 Unit B1 continued	Spring 1 Unit C1 Chemistry	Spring 2 Unit 1 Chemistry continued	Summer 1 Unit P1 Physics	Summer 2 Unit P1 Physics Practice Controlled Assessments Final End of Year Exam
<p>A basic introduction to many of the more advanced skills needed in a lab with a review of health and safety procedures.</p> <p>Followed by Unit B1 in which students will discover what plants and animals are made of (cells).</p> <p>Students explore use of a microscope and how different structures work together to keep an organism alive.</p> <p>Skills developed are: Planning investigations</p> <p>Recording and analysing data</p> <p>Evaluating data.</p>	<p>Work on B1 is continued.</p> <p>Students will discover how new plants and animals are created through the process of reproduction.</p> <p>Skills developed are: Select, plan and carry out the most appropriate types of scientific enquiries to test predictions, including identifying independent, dependent and control variables where necessary.</p>	<p>A challenging unit introducing students to how everything is made up of chemicals.</p> <p>Students will discover what these chemicals are like inside and why they behave in the way they do.</p> <p>Skills developed are: Interpret observations and data, including identifying patterns and using observations, measurements and data to draw conclusions.</p> <p>Understand and use SI units and IUPAC (International Union of Pure and Applied Chemistry) chemical nomenclature.</p>	<p>In the latter part of this unit students explore atoms and how chemical reactions make vital materials and transfer energy.</p> <p>Skills developed are: Ask questions and develop a line of enquiry based on observations of the real world, alongside prior knowledge.</p> <p>Identify independent, dependent, and control variables where necessary.</p>	<p>Another challenging unit where students learn about how we see and how light and sound waves behave.</p> <p>A study of Earth's place in the universe is made.</p> <p>Skills developed are: Make and record observations and measurements using a range of methods for different investigations; and evaluate the reliability of methods and suggest possible improvements.</p>	<p>Students continue their study with learning about the forces that keep them from falling through the floor and allow astronauts to stand on the moon.</p> <p>Various investigations focussing on topics covered over the year.</p> <p>Skills developed are: Complete review of Working Scientifically skills as previously shown.</p> <p>Review of all concepts study skills.</p>