

	<u>Module 1</u>	<u>Module 2</u>	<u>Module 3</u>	<u>Module 4</u>	<u>Module 5</u>	<u>Module 6</u>
<u>Year</u> <u>7</u>	<u>Periodic Table</u> Students learn about the history of the atom and the patterns in the periodic table.	<u>Energy</u> Students learn about the conservation of energy and investigate energy stores and the nature of work.	<u>Bonding, reactions and equations</u> Students learn about how atoms create materials and compounds through bonding.	<u>Cells</u> Students learn what cells are, their structures, and how they function.	<u>Forces</u> Students learn the 4 fundamental forces and how they relate to atoms. They also learn Newton's laws.	<u>Sexual reproductive systems</u> Students learn about the different parts of the sexual reproductive organs and the hormones involved in the menstrual cycle and puberty. <u>Reproduction</u> Students learn the difference between sexual and asexual reproduction and look at how inheritance of alleles can determine characteristics.
<u>Year</u> <u>8</u>	<u>Heat transfers</u> Students learn about how atoms help the transfer of heat and how energy is transferred	<u>Using chemicals</u> Students learn how chemicals are used in industry. Including how oil and polymerisation have changed the world.	<u>Organ systems: Circulatory and respiratory</u> students learn how the circulatory and respiratory systems work together to supply oxygen to the cells of the body <u>Organ systems: digestive</u> Students learn how the digestive system extracts nutrients from food	<u>Electricity</u> Students learn what "electricity" is and investigate different types of resistors..	<u>Disease</u> Students learn what causes disease and how the body defends itself against pathogens	<u>Analysing chemicals</u> students learn how to analyse the composition of a substance through experimentation.

			<p>and works with the circulatory system.</p> <p><u>Organ systems: nervous hormonal and skeletal</u></p> <p>Students learn how the nervous, hormonal and skeletal systems work together to help us function.</p>			
<p><u>Year 9</u></p>	<p><u>Interdependence</u></p> <p>Students learn about how fragile the balance in any ecosystem is by exploring how ecosystems function</p>	<p><u>Evolution through natural selection</u></p> <p>Students learn that, due to natural selection, living organisms evolve.</p>	<p><u>Human impact</u></p> <p>Students learn how humans have impacted the natural world and explore.</p>	<p><u>Solar system</u></p> <p>Students learn about the various parts of the solar system from the sun to the oort cloud.</p>	<p><u>The universe</u></p> <p>Students learn about how the universe was formed. The life cycle of stars and how we know these things.</p>	<p><u>Questioning with experiments</u></p> <p>Students learn how to create a scientific question and how to carry out an appropriate experiment. In so doing they will research journals and understand the scientific method.</p>