



## Year 10- Science Curriculum Plan Overview

Year 10 - GCSE New Content			
Term	Topic	Learning	How can parents' best support
<b>Autumn 1</b>	EL Physics	<ul style="list-style-type: none"> <li>● Electricity</li> <li>● Electricity in the Home</li> <li>● Power</li> <li>● Electricity Bills</li> <li>● Circuits</li> <li>● Waves</li> <li>● Electromagnets</li> </ul>	<p>Share Bills, discuss smart meters and switching suppliers.</p> <p>Watch some consumer programmes or documentaries discussing green or alternative energy.</p>
<b>Assessment:</b>	<b>ELI Assessment</b>		
<b>Autumn 2</b>	Cell Biology	<ul style="list-style-type: none"> <li>● Cell structure</li> <li>● Microscopy</li> <li>● Cell Division</li> <li>● Cell Transport</li> </ul>	<p>Grow your own vegetables or discuss plant growth and needs in the garden.</p> <p>Watch Gardening shows or CountryFile</p> <p>How does the plant get water?</p> <p>How does it grow a root vegetable?</p>
<b>Assessment:</b>			
<b>Spring 1</b>	Organisation	<ul style="list-style-type: none"> <li>● Level of Organisation</li> <li>● Digestion</li> <li>● Blood and Circulation</li> <li>● Non- Communicable Disease</li> <li>● Transport in Plants</li> </ul>	<p>Discuss healthy living, keeping fit and the long term benefits.</p> <p>Take part in a family physical activity that is appropriate and maintainable for your family.</p> <p>Discuss the importance of a healthy mental and physical health.</p>
<b>Assessment:</b>			
<b>Spring 2</b>	Infection and Disease  Photosynthesis	<ul style="list-style-type: none"> <li>● Pathogens and Disease</li> <li>● Human Defence against Disease</li> <li>● treating Disease</li> <li>● Plants Disease</li> <li>● Photosynthesis</li> <li>● Respiration and Exercise</li> </ul>	<p>Watch documentaries on staying healthy including healthy eating and healthy lifestyles.</p> <p>and Watch news updates on Coronavirus and discuss prevention of disease.</p> <p>Watch documentaries on Vaccine development.</p> <p>Discuss where our food comes from.</p> <p>Watch gardening and farming programmes to become familiar with plant terms and techniques used for propagation and for increasing growth/yields.</p> <p>Plant your own vegetables at home, discuss possible plant disease.</p>
<b>Assessment:</b>	<b>GCSE practice paper 1</b>		
<b>Summer 1</b>	Homeostasis and response	<ul style="list-style-type: none"> <li>● Homeostasis</li> <li>● Diabetes</li> <li>● Hormones</li> <li>● Reproduction</li> </ul>	<p>Discuss growing up and the changes hormones have on our bodies.</p>

		<ul style="list-style-type: none"> <li>● Plant Hormones</li> </ul>	
<b>Assessment:</b>			
<b>Summer 2</b>	Inheritance, Variation and Evolution	<ul style="list-style-type: none"> <li>● Variation</li> <li>● Evolution</li> <li>● Speciation</li> <li>● Selective Breeding</li> </ul>	<p>If appropriate discuss characteristics in your family and their family tree.</p> <p>Watch nature and farming documentaries to identify the whole range of diversity on planet Earth and in the UK.</p>