

**Beckmead Family of Schools Curriculum Information**

**Entry Level Science**

	<b>Autumn</b>	<b>Spring</b>	<b>Summer</b>
Year 10	<p><b>Classification and variation.</b>  <b>In this topic, students will explore:</b></p> <ul style="list-style-type: none"> <li>• The structure of a simple animal cell and a simple plant cell the classification of living things</li> <li>• Variations in humans</li> <li>• Inheritance of characteristics genetic disorders</li> <li>• Evolution</li> </ul> <p><b>Changes in humans and planets.</b>  <b>In this topic, students will explore:</b></p> <ul style="list-style-type: none"> <li>• Keeping body conditions constant hormones</li> <li>• The nervous system</li> <li>• Changes in plant growth.</li> </ul>	<p><b>Drugs and bacteria.</b>  <b>In this topic, students will explore:</b></p> <ul style="list-style-type: none"> <li>• The general effects of the four major drug types on the human body how reaction times are affected by drugs</li> <li>• The implications of drug misuse</li> <li>• The spread of infectious diseases by pathogens</li> <li>• Measures to reduce the spread of infectious diseases use of antibiotics to control infection.</li> </ul> <p><b>The earth, its atmosphere and chemical reactions.</b>  <b>In this topic, students will explore:</b></p> <ul style="list-style-type: none"> <li>• The atmosphere – how it has changed over time</li> <li>• Igneous, sedimentary and metamorphic rocks</li> <li>• Atoms and chemical reactions.</li> </ul>	<p><b>Acids and metals.</b>  <b>In this topic, students will explore:</b></p> <ul style="list-style-type: none"> <li>• Some properties of metals and non-metals metals in the Earth</li> <li>• Neutralisation reactions</li> <li>• How to test for some gases.</li> </ul> <p><b>Experiments and assignment task.</b></p>
	<p><b>Assessment:</b>                      Topic tests - 60 percent internally marked, externally set and moderated.</p> <p>Assignments - 40 percent internally marked, externally set and moderated.</p>	<p><b>Assessment:</b>                      Topic tests - 60 percent internally marked, externally set and moderated.</p> <p>Assignments - 40 percent internally marked, externally set and moderated.</p>	<p><b>Assessment:</b>                      Topic tests - 60 percent internally marked, externally set and moderated.</p> <p>Assignments - 40 percent internally marked, externally set and moderated.</p>

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Year 11	<p><b>Fuels.</b>  <b>In this topic, students will explore:</b></p> <ul style="list-style-type: none"> <li>• Fuels</li> <li>• Useful substances produced from crude oil</li> <li>• Pollution and the environment, including the greenhouse effect</li> <li>• Sustainability.</li> </ul> <p><b>Waves and radiation.</b>  <b>In this topic, students will explore:</b></p> <ul style="list-style-type: none"> <li>• Uses of converging lenses</li> <li>• How to describe waves the visible spectrum</li> <li>• The electromagnetic spectrum ionising and other radiation.</li> </ul>	<p><b>Earth and space.</b>  <b>In this topic, students will explore:</b></p> <ul style="list-style-type: none"> <li>• The structure of the Earth</li> <li>• The nature, location and harmful effects of earthquakes</li> </ul> <p><b>Experiments and assignment task.</b></p>	<p><b>Electricity and Energy.</b>  <b>In this topic, students will explore:</b></p> <ul style="list-style-type: none"> <li>• The generation of electricity using a variety of energy sources avoiding wastage and the efficient and safe use of electricity.</li> </ul> <p><b>Experiments and assignment task.</b></p>
	<p><b>Assessment:</b>                      Topic tests - 60 percent internally marked, externally set and moderated.</p>	<p><b>Assessment:</b>                      Topic tests - 60 percent internally marked, externally set and moderated.</p>	<p><b>Assessment:</b>                      Topic tests - 60 percent internally marked, externally set and moderated.</p>

	Assignments - 40 percent internally marked, externally set and moderated.	Assignments - 40 percent internally marked, externally set and moderated.	Assignments - 40 percent internally marked, externally set and moderated.
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*For further information, please contact your child's teacher or Head of School*