

Mid-Year Expectations		End of Year Expectations
Higher Prior Attainer	<p><b>Biology</b></p> <ul style="list-style-type: none"> <li>Students can compare plants, animals and bacterial cells, structural adaptations of specialized cells.</li> <li>Students can use a microscope safely to prepare slides of plant and animal cells.</li> <li>Students can describe and explain the structure and functions of human skeleton.</li> <li>Students can explain the interaction between skeleton and muscles including the antagonistic muscles.</li> </ul> <p><b>Chemistry</b></p> <ul style="list-style-type: none"> <li>Students can explain the properties of 3 states of matter.</li> <li>Students can compare mixtures and pure substances.</li> <li>Students can explain how mixtures can be separated.</li> <li>Students can describe and explain the structure of the Earth.</li> <li>Students can describe 3 types of rocks and explain the rock cycle.</li> </ul> <p><b>Physics</b></p> <ul style="list-style-type: none"> <li>Students can explain how thermal energy is transferred through conduction, convection, and radiation.</li> <li>Students can describe how home insulation works.</li> </ul>	<p><b>Biology</b></p> <ul style="list-style-type: none"> <li>Students can explain the adaptations of sperm and egg, the stages of menstrual cycle, the reasons for infertility and fertility treatments.</li> <li>Students can draw and interpret food webs and explain feeding relationships involving food webs.</li> <li>Students can explain why organisms have adaptations and make links to their habitat / environment.</li> <li>Students can explain the difference between continuous and discontinuous variation.</li> </ul> <p><b>Chemistry</b></p> <ul style="list-style-type: none"> <li>Students can explain the properties and applications of acids and alkalis.</li> <li>Students can write and interpret symbol equations.</li> <li>Students can select, plan and carry out an investigation to test predictions based on scientific principles about indigestion remedies.</li> <li>Students can make and record observations and evaluate the reliability of method and suggest improvement.</li> </ul> <p><b>Physics</b></p> <ul style="list-style-type: none"> <li>Students can construct and interpret force diagrams.</li> <li>Students can calculate resultant force and speed, convert simple units, and interpret distance time graphs.</li> <li>Students can explain day and night and seasons, moon phases and effects of gravity.</li> </ul>



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Middle Prior Attainer	<b>Biology</b> <ul style="list-style-type: none"> <li>Students can describe plants, animals and bacterial cells, structural adaptations of specialized cells.</li> <li>Students use a microscope safely to prepare slides of plant and animal cells.</li> <li>Students describe the structure and functions of human skeleton.</li> <li>Students describe the interaction between skeleton and muscles including the antagonistic muscles.</li> </ul>	<b>Biology</b> <ul style="list-style-type: none"> <li>Students can describe the adaptations of sperm and egg, the stages of menstrual cycle and the reasons for infertility and fertility treatments.</li> <li>Students can describe and begin to explain the difference between continuous and discontinuous variation.</li> <li>Students can draw and interpret food webs.</li> <li>Students can describe feeding relationships involving food webs.</li> <li>Students can describe adaptations in organisms in relation to their habitat / environment.</li> </ul>
	<b>Chemistry</b> <ul style="list-style-type: none"> <li>Students can describe properties of 3 states of matter.</li> <li>Students can describe changes in states of matter.</li> <li>Students can describe the mixtures and pure substances and explain how mixtures can be separated.</li> <li>Students can describe the structure of the Earth.</li> <li>Students can describe 3 types of rocks and the rock cycle.</li> </ul>	
	<b>Physics</b> <ul style="list-style-type: none"> <li>Students can describe ways in which thermal energy is transferred through conduction, convection and radiation.</li> <li>Students can explain how home insulation works.</li> </ul>	
		<b>Chemistry</b> <ul style="list-style-type: none"> <li>Students can describe the properties and applications of acids and alkalis.</li> <li>Students can write and interpret work equations.</li> <li>Students can develop and follow a plan to test predictions about indigestion remedies.</li> <li>Students can make and record observations and evaluate the reliability of method.</li> </ul>
		<b>Physics</b> <ul style="list-style-type: none"> <li>Students can explain day and night and seasons.</li> <li>Students can describe moon phases and effects of gravity.</li> <li>Students can construct and interpret forces diagrams.</li> <li>Students can calculate resultant force and speed and convert simple units.</li> <li>Students can describe distance time graphs.</li> </ul>



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Lower Prior Attainer	<b>Biology</b> <ul style="list-style-type: none"> <li>Students can identify parts of plants, animals and bacterial cells.</li> <li>Students can describe the functions of some organelles.</li> <li>Students can name some specialised cells and describe their roles. Use a microscope safely to prepare slides of plant and animal cells.</li> <li>Students can label key parts of human skeleton and list function of human skeleton.</li> <li>Students can name key muscles including antagonistic muscles and describe their interaction with skeleton.</li> </ul>	<b>Biology</b> <ul style="list-style-type: none"> <li>Students can recognise the adaptations of sperm and egg, the stages of menstrual cycle, the reasons for infertility and fertility treatments.</li> <li>Students can draw food chains and webs.</li> <li>Students can describe feeding relationships involving food webs.</li> <li>Students can describe adaptations in organisms in relation to their habitat / environment.</li> <li>Students can describe and give examples of continuous and discontinuous variation.</li> </ul>
	<b>Chemistry</b> <ul style="list-style-type: none"> <li>Students can describe properties of 3 states of matter and changes in states of matter.</li> <li>Students can describe mixtures and pure substances.</li> <li>Students can explain how mixtures can be separated,</li> <li>Students can describe the structure of the Earth.</li> <li>Students can name 3 types of rocks and examples of each type.</li> <li>Students can label the rock cycle.</li> </ul>	
	<b>Physics</b> <ul style="list-style-type: none"> <li>Students can state ways in which thermal energy is transferred through conduction, convection and radiation.</li> <li>Students can give examples of each type of energy transfer.</li> <li>Students can give examples of ways we can insulate our homes.</li> </ul>	
		<b>Chemistry</b> <ul style="list-style-type: none"> <li>Students can describe 3 types of rocks and give examples of each type.</li> <li>Students can label the rock cycle.</li> <li>Students can list the properties and examples of acids and alkalis; can write word equations.</li> <li>Students can follow a given plan to investigate indigestion remedies.</li> <li>Students can make and record observations and draw conclusions.</li> </ul> <b>Physics</b> <ul style="list-style-type: none"> <li>Students can describe day and night and seasons.</li> <li>Students can describe moon phases and effects of gravity.</li> <li>Students can label force diagrams.</li> <li>Students can calculate resultant force and speed.</li> <li>Students can convert simple units.</li> <li>Students can describe distance time graphs</li> </ul>

