



## Science Curriculum: Year 5/6 Cycle B

*What are the aims and intentions of this curriculum?*

That children are:

- allowed to explore and discover the science in the world around them.
- are provided with the opportunities to develop their curiosity and to ask questions.
- are taught the skills they need to find answers to their own questions.
- are able to independently apply their skills to find the answers.

Term	Topic	Knowledge	Skills	Assessment
Autumn 1 & 2	Earth & Space	<p>Know how the Earth (and other planets) move in relation to the Sun</p> <p>Know how the moon moves in relation to the Earth.</p> <p>Know that the Sun, Earth and Moon are roughly spherical bodies.</p> <p>Know that day and night occur because of the rotation of the Earth.</p> <p>Know why the sun appears to move across the sky.</p>	<p>Observe</p> <p>Compare</p> <p>Group</p> <p>Research</p> <p>Explore</p> <p>Explain</p> <p>Give reasons</p>	
Spring 1 & 2	Animals Including Humans	<p>Know the changes humans go through as they develop to old age.</p>	<p>Some aspects to be taught through the Sex and Relationships Curriculum.</p> <p>Research</p> <p>Compare</p> <p>Sequence</p> <p>Record</p> <p>Report</p>	
Summer 1	Light	<p>Know that light appears to travel in straight lines.</p> <p>Know that objects are seen because they give out or reflect light (which travels in straight lines) into the eye.</p>	<p>Recognise</p> <p>Explore</p> <p>Predict</p> <p>Compare (patterns)</p> <p>Observe</p> <p>Explain</p>	



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		<p>Know that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.</p> <p>Know that shadows have the same shape as the objects that cast them (because light travels in straight lines).</p>	<p>Fair test</p> <p>Ask (follow up questions)</p>	
Summer 2	Forces	<p>Know that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.</p> <p>Know the effect of air resistance, water resistance and friction on moving surfaces.</p> <p>Know that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect</p>	<p>Explore</p> <p>Notice</p> <p>Research</p> <p>Classify</p> <p>Devise</p> <p>Plan</p> <p>Predict</p> <p>Investigate</p> <p>Measure</p> <p>Record</p> <p>Interpret</p> <p>Conclude</p>	
<p><b><u>Principal Focus</u></b></p> <ul style="list-style-type: none"> <li>• Exploring and talking about their ideas</li> <li>• Asking their own questions</li> <li>• Recognise abstract ideas and how these help them understand and predict</li> <li>• Recognise how scientific ideas change over time</li> <li>• Answer questions by selecting an appropriate way to do that</li> <li>• Draw conclusions based on their data and explain findings</li> </ul>				