

What are the aims and intentions of this curriculum? Year 6

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
	Evolution & inheritance What is evolution and inheritance?	Know that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago. Know that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents. Know how animals and plants have adapted to suit their environment in different ways and that adaptation may lead to evolution.	Recognise Identify Explore Ask Research	Describe Compare Conclude Design	
	Animals Including Humans How do I keep my body healthy? What is the circulatory system?	Identify the main parts of the human circulatory system and know that the heart pumps blood in vessels around to the lungs. Know how blood is oxygenated. Know that diet, drugs, and exercise have an effect on the way our bodies work. Know how nutrients and water are transported within animals including humans.	Research Compare Sequence Record		
	Living Things we cannot see	Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals To give reasons for classifying plants and animals based on specific characteristics	Explore Notice Research Classify Devise Plan	Predict Investigate Record Interpret Conclude	

	How do we group and classify animals?				
	Light What is light and shadow?	<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>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>Recognise</p> <p>Explore</p> <p>Predict</p> <p>Compare (patterns)</p> <p>Observe</p> <p>Explain</p> <p>Fair test</p> <p>Ask (follow up questions)</p>		
	Electricity Can you describe electrical circuits and symbols?	<p>Know that the brightness of a lamp or the volume of a buzzer is associated with the number and voltage of cells used in the circuit.</p> <p>Know that there are variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches.</p> <p>Know the symbols for components used in a series circuit.</p>	<p>Notice</p> <p>Compare</p> <p>Recognise</p> <p>Predict</p> <p>Observe</p>	<p>Use (symbols)</p> <p>Create (circuit)</p> <p>Explore</p> <p>Explain</p> <p>Fair test</p>	
			<p>Invent (ways of measuring the brightness of a bulb)</p> <p>Ask (follow up questions)</p>		
	Sustainability Light pollution and renewable energy?	<p>Know what light pollution is.</p> <p>Know what renewable energy is.</p> <p>Know how to prevent light pollution.</p>	<p>Research</p> <p>Collect</p> <p>Record</p> <p>Ask questions</p> <p>Explain</p>		