

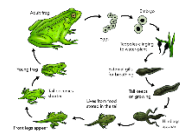

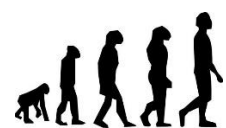





## Year 5 Science Implementation

These statements are used to assess the impact of our teaching intention and the progress of the children during their learning journey.

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Theme	 <p><b>Forces and Mechanisms</b></p>	 <p><b>Forces (Gravity, Friction and Momentum)</b></p>	 <p><b>Adaptations and Lifecycles</b></p>	 <p><b>Light</b></p>	 <p><b>Evolution and Inheritance</b></p>	 <p><b>The Why Factor B The Scientific Process</b></p>
	<p>I can identify and explain the effect of <b>water resistance</b>. I can work out how water can cause <b>resistance</b> to floating objects. I can identify and explain the effect of <b>air resistance</b>. I can explain how <b>levers, pulleys</b> and <b>gears</b> allow a smaller <b>force</b> to have a greater effect.</p>	<p>I can explain what <b>gravity</b> is and its impact on our lives. I can identify and explain the effect of <b>friction</b>. I can describe and explain how <b>motion</b> is affected by forces, for example, <b>gravitational attractions, magnetic attraction</b> and <b>friction</b>.</p>	<p>I can describe the <b>process</b> of <b>reproduction</b> in <b>plants</b>. I can describe the process of <b>reproduction</b> in <b>animals</b>. I can describe the <b>life cycle</b> of different living things, e.g. <b>mammal, amphibian, insect bird</b>. I can create a timeline to indicate <b>stages of growth</b> in humans. I can explain how animals and plants are <b>adapted</b> to suit their <b>environment</b>.</p>	<p>I can explain how <b>light travels</b>. I can explain and <b>demonstrate</b> how we see objects. I can explain why <b>shadows</b> have the same shape as the object that <b>casts</b> them. I can explain how simple <b>optical instruments</b> work, e.g. <b>periscope, telescope, binoculars, mirror</b> and a <b>magnifying glass</b>. I can use the <b>ray model</b> to explain the size of <b>shadows</b>.</p>	<p>I can describe how the <b>Earth</b> and living things have <b>changed over time</b>. I can explain how <b>fossils</b> can be used to find out about the past. I can explain <b>evolution</b>. I can link <b>adaptation</b> over time to <b>evolution</b>. I can explain about <b>reproduction</b> and <b>offspring</b> (recognising that offspring normally <b>vary</b> and are not <b>identical</b> to their parents).</p>	<p>I can use information to help make a <b>prediction</b>. I can explain a <b>scientific</b> idea and what <b>evidence</b> supports it. I can make a <b>prediction</b> that links with other <b>scientific knowledge</b>.</p>