

# Year 6 Progression in Science

Biology			Chemistry	Physics	
Animals including humans	Living things and their habitats	Plants	Materials	Forces	How the world works
<p><b>Humans - the circulatory system</b></p> <ul style="list-style-type: none"> <li>I know the ways in which nutrients and water are transported within animals, including humans, through the circulatory system, and can describe the functions of the heart, blood vessels and blood</li> </ul> <p><b>Healthy Lifestyles</b></p> <ul style="list-style-type: none"> <li>I know the impact of diet, exercise, drugs and lifestyle on the way my body functions</li> </ul>	<p><b>Classification</b></p> <ul style="list-style-type: none"> <li>I know 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</li> </ul>	<p><b>Evolution and inheritance</b></p> <ul style="list-style-type: none"> <li>I know that that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago</li> <li>I know that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents</li> <li>I know how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution</li> </ul>		<p><b>Electricity</b></p> <ul style="list-style-type: none"> <li>I 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</li> <li>I know that there are reasons for variations in how components function <i>including the brightness of bulbs, the loudness of buzzers and the on/off position of switches</i></li> <li>I know how to use recognised symbols when representing a simple circuit in a diagram</li> </ul>	<p><b>Light</b></p> <ul style="list-style-type: none"> <li>I know that light appears to travel in straight lines</li> <li>I 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</li> <li>I know why shadows have the same shape as the objects that cast them</li> </ul>

<p><b>Humans - the circulatory system</b></p> <ul style="list-style-type: none"> <li>• I will know the parts of the human circulatory system</li> <li>• I will know how the heart works</li> <li>• I will know the functions of blood and blood vessels</li> </ul> <p><b>Healthy Lifestyles</b></p> <ul style="list-style-type: none"> <li>• I will know the impact of diet and exercise on the way my body functions</li> <li>• I will know the impact of drugs on the way my body functions</li> </ul>	<p><b>Classification</b></p> <ul style="list-style-type: none"> <li>• I will know that living things can be classified into broad groups</li> <li>• I will know that animals can be vertebrates or invertebrates</li> <li>• I will know that micro-organisms can be classified into groups</li> <li>• I will know that plants can be classified into groups</li> </ul>	<p><b>Evolution and inheritance</b></p> <ul style="list-style-type: none"> <li>• I will know that fossils tell us about the past</li> <li>• I will know how animals and plants are adapted to suit their environment in different ways</li> <li>• I will know that living things produce offspring who inherit traits from their parents</li> <li>• I will know that adaptation may lead to evolution</li> </ul>		<p><b>Electricity</b></p> <ul style="list-style-type: none"> <li>• I will know the functions of electrical components and their symbols in a circuit diagram</li> <li>• I will know how changing the number or voltage of cells in a circuit affects the brightness of a lamp</li> </ul>	<p><b>Light</b></p> <ul style="list-style-type: none"> <li>• I will know that light appears to travel in straight lines</li> <li>• I will know how we see things</li> <li>• I will know how shadows form</li> </ul>
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