

SCIENCE CURRICULUM– YEAR 6

THEME	KNOWLEGDE	SCIENTIFIC INVESTIGATION SKILLS
Living Things & their Habitats	<p>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</p> <p>Give reasons for classifying plants and animals based on specific characteristics.</p>	<p><u>Planning & Communication</u> Choose scales for graphs which show data and features effectively</p> <p>Identify measurements and observations which do not fit into the main pattern</p> <p>Begin to explain anomalous data</p> <p>Use appropriate ways to communicate quantitative data using scientific language</p>
Animals including humans	<p>Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood</p> <p>Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function</p> <p>Describe the ways in which nutrients and water are transported within animals, including humans.</p>	<p><u>Investigation & Observing</u> Describe evidence for a scientific idea</p> <p>Use scientific knowledge to identify an approach for an investigation</p> <p>Explain how the interpretation leads to new ideas</p>
Evolution	<p>Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago</p> <p>Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents</p> <p>Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.</p>	<p><u>Observing & Recording</u> Measure quantities with precision using fine – scale divisions</p> <p>Select and use information effectively</p> <p>Make enough measurements or observations for the required task</p>

Light	<p>Recognise that light appears to travel in straight lines</p> <p>Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye</p> <p>Explain 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>Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them</p>	<p><u>Considering Evidence and Evaluating</u></p> <p>Make reasoned suggestions on how to improve working methods</p> <p>Show how interpretation of evidence leads to new ideas</p> <p>Explain conclusions, showing understanding of scientific ideas</p>
Electricity	<p>Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit</p> <p>Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches</p> <p>Use recognised symbols when representing a simple circuit in a diagram</p>	