



## As a Year 6 Scientist I will know...

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<p style="text-align: center;"><b><u>Living things and their habitats</u></b></p> <p>how living things are classified into broad groups according to common observable characteristics and based on similarities and differences including microorganisms, plants and animals</p> <p>how to give reasons and classify plants and animals based on specific characteristics</p>	<p style="text-align: center;"><b><u>Animals inc. Humans</u></b></p> <p>how to identify and name the main parts of the human circulatory system and describe the functions of the heart, blood vessels and blood.</p> <p>how diet, exercise, drugs and lifestyle can impact the way bodies function.</p> <p>ways in which nutrients and water are transported within animals including humans</p>	<p style="text-align: center;"><b><u>Light</u></b></p> <p>that light appears to travel in straight lines</p> <p>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>how 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>the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them</p>
<p style="text-align: center;"><b><u>Evolution and Inheritance</u></b></p> <p>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>that living things produce offspring of the same kind but normally offspring vary and are not identical to their parents.</p> <p>how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution</p>	<p style="text-align: center;"><b><u>Electricity</u></b></p> <p>that the brightness of a lamp or the volume of a buzzer is associated with the number of voltage of cells used in a 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>recognised symbols when representing a simple circuit in a diagram</p>	



## As a Year 6 Scientist I can...

### Working Scientifically

- planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
- recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
- using test results to make predictions to set up further comparative and fair tests
- reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations
- identifying scientific evidence that has been used to support or refute ideas or arguments
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