

Sticky Knowledge- Science

Class – Redwoods

Year 6



Light

Autumn 1

- How does light travel?
- Can you explain how objects are seen?
- Why do shadows have the same shape as the objects that cast them?
- Explain how you have carried out investigations to support or refute your predictions or ideas.

Electricity

Autumn 2

- How is the brightness of a lamp or the volume of a buzzer affected by the number and voltage of cells used in the circuit?
- Can you explain for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches?
- Can you use the correct symbols when drawing a simple circuit in a diagram?
- Explain how you have planned an investigation, recorded your results and made a conclusion based on this?

Evolution and Inheritance

Spring 1

- What information do fossils give us?
- Why are offspring similar to their parents but not identical?
- Can you explain how animals and plants are adapted to suit their environment in different ways?
- How does adaptation lead to evolution?

Animals including humans

Spring 2

- Can you identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood?
- Can you explain the impact of diet, exercise, drugs and lifestyle on the way your body functions?
- Can you explain how nutrients and water are transported within animals, including humans?
- How did you take measurements when carrying out your investigation? How did you ensure that the measurements you recorded were accurate?

Living Things and their Habitat

Summer Term

- How and why are living things classified into groups?
- What are the names of the groups that animals are classified into?
- How did you record your observations during your investigation?
- How did you ensure that your investigation was fair?