



Science - Assessment

Year 4 Summer 2



Key Vocabulary

component	a part or element of a larger whole, especially a part of a machine or vehicle
conductor	a material which <u>easily allows</u> electricity, heat or sound to pass through
insulator	a material which <u>does not easily allow</u> electricity, heat or sound to pass through
herbivore	an animal that only consumes plants
carnivore	an animal that consumes other animals for energy
omnivore	an animal which has both plants and other animals in its diet
evaporation	the process of turning from liquid into gas, for example water turning to water vapour
condensation	when a gas turns back into a liquid, for example water vapour to water droplets
water cycle	the continuous process of recycling water on earth, from the sea, to the sky, to precipitation, to surface run off and back to the sea

Why don't you...

...draw a diagram of how to wire a plug? Use the video link below!

...imagine your house with no electricity. How could you make a circuit to power your television?

...make a poster showing how to tell if an animal is a carnivore or a herbivore?

...build a model of the water cycle in a plastic bag?

Website Links

<https://www.youtube.com/watch?v=1NIUb5FRnx4>

<https://www.youtube.com/watch?v=Jajf2UrKe9A>

Enquiry Questions

What happens if I decide to use wood in my electrical circuit?

Can a circuit be made using only 3 components?

What happens if all the earthworms disappear?

Am I drinking the same water as the dinosaurs?

Scientific Knowledge

Construct a simple series electrical circuit, identifying and naming its basic parts (cells, wires, bulbs, switches and buzzers).

Recognise common conductors and know some metals are good conductors.

Recognise some insulators and know how they are used in everyday life.

Construct and interpret a range of food chains, identifying predator and prey.

Identify the part played by evaporation and condensation in the water cycle.

Scientific Concepts

Processes - A series of actions or steps taken in order to achieve a particular goal.

Energy - Strength and power. There are many forms such as thermal (heat), radiant (light) or kinetic (movement).

Structure and function - Anything composed of parts arranged together in some way has a structure. A function is a specific job or procedure.

Scientific Skills

- Use different ideas and suggest how to find something out.
- Make and record a prediction before testing.
- Record their observations in different ways (labelled diagrams, charts etc).
- Describe what they have found using scientific words.