Electricity

Year 4



Review:

What should I already know?

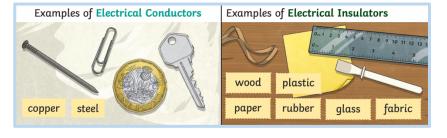
• To make something electrical work we need a source of power.

Essential knowledge

- Identify and name common appliances that run on electricity.
- Construct a simple electrical circuit
- Identify and name the basic parts of an electrical circuit, including, cells, wires, bulbs, switches and buzzers



- Be able to identify whether or not a lamp will light in a simple circuit based upon knowledge of what a simple circuit needs.
- A conductor of electricity is a material that will allow electricity to flow through it.
- An insulator does not allow electricity to flow through it.



Vocabulary			
Physics	Physics is all about the Earth and how it works.		
Working Scientifically	Working scientifically is about answering scientific questions.		

Appliance	A device or piece of equipment that has been made to perform a specific task.
Battery	A small item used to power small appliances.
Circuit	A pathway that electricity can flow around.
Conductor	A material which energy (in this case, electricity) can flow through.
Insulator	A material which energy (in this case, electricity) cannot flow through easily.

cell: Normally, we would call this a battery but scientifically, this is a cell. Two or more cells joined together form a battery.







bulb: Lights up in a

complete circuit.



wires: Used to connect motor: Produces the different components movement in a in the circuit together. complete circuit.



switch: Used to turn other components in the circuit on or off.





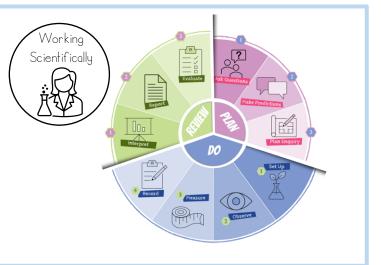
Working scientifically

Our enquiry focus:

Observing Changes Over Time	Pattern Seeking	Identifying, Grouping & Classifying	Fair Testing	Research
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Our working scientifically skills:

PLAN	Plan enquiry	DO	Set Up
REVIEW	Interpret	REVIEW	Evaluate



Living Things and their Habitats

Year 4



Review:

What should I already know?

- Animals can be grouped by what they eat: carnivore, omnivore, herbivores.
- Animals can be grouped into 5 categories: mammals, birds, reptiles, amphibians and fish.
- Living things live in different habitats, including microhabitats.
- Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees.

Essential knowledge.

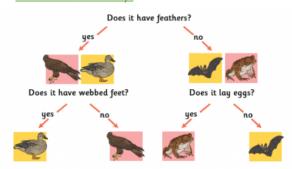
- Living things can be grouped in different ways (where they live, what type of organism they are, what features they have, invertebrate/vertebrate).
- We can use classification keys to help group, identify and name a variety of living things.
- •We can recognise that environments can change and that this can sometimes post dangerous to living things.

Natural Changes	Human Changes
• Earthquake	• Deforestation
• Storms	• Pollution
• Floods	• Creating a new
• Droughts	nature reserve
• Wildfires	 Introducing a new animal to the habitat.

Vocabulary		
Biology	Biology is all about living things.	
Working Scientifically	Working scientifically is about answering scientific questions.	

Classification	Where living things are placed into groups according to their similarities.	
Vertebrate/ Invertebrate	A creature with/without a spine.	
Characteristics	Features or qualities that are specific to something.	
Environment	What is around us and contains many different habitats.	
Sensitivity	The way living things react to changes to their environment.	

Classification Key:



Working scientifically

Our enquiry focus:

Observing Changes Over Time	Pattern Seeking	Identifying, Grouping & Classifying	Fair Testing	Research
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Our working scientifically skills:

PLAN	Ask questions	DO	Record
DO	Observe	REVIEW	Report

