

Subject: Year 4  
Concept: Electricity

Previously, I have learnt...

In Year 4, I am learning...

In the future, I will learn...

My future...

That objects around me use electricity to work.

That we save electricity to save energy and help our environment.

That electricity is used for lots of different things.

How to identify common appliances that run on electricity

To construct a simple series electrical circuit, identifying and naming its basic parts.

To identify whether or not a lamp will light in a simple series circuit.

How to recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit

How to recognise some common conductors and insulators, and associate metals with being good conductors.

How to associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit

How to 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

To use recognised symbols when representing a simple circuit in a diagram

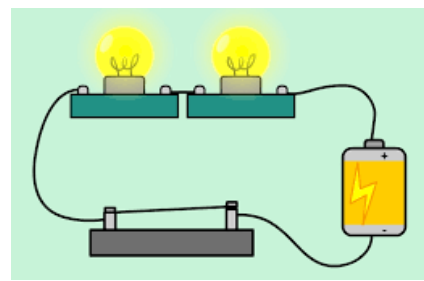
- Scientist
- Doctor
- Dentist
- Archaeologist
- Engineer
- Chemist
- Teacher
- Biochemist
- Astronaut
- Anthropologist
- Environmentalist
- Naturalist
- Wildlife documentary presenter



energy  
electricity  
objects  
power  
working  
environment



conductor  
insulator  
switch  
circuit  
buzzer  
cells  
wires  
fuse



battery  
component  
motor  
voltage  
function  
symbols  
graphite  
series  
parallel

Subject: Year 6  
Concept: Electricity

Previously, I have learnt...

- How to identify common appliances that run on electricity
- To construct a simple series electrical circuit, identifying and naming its basic parts.
- To identify whether or not a lamp will light in a simple series circuit.
- How to recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit
- How to recognise some common conductors and insulators, and associate metals with being good conductors.

In Year 6, I am learning...

- How to associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit
- How to 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
- To use recognised symbols when representing a simple circuit in a diagram.

In the future, I will learn...

- That electric current is measured in amperes, in circuits, series and parallel circuits, currents add where branches meet and current as flow of charge
- That there are differences in resistance between conducting and insulating components.
- That the separation of positive or negative charges when objects are rubbed together gives a transfer of electrons, forces between charged objects.

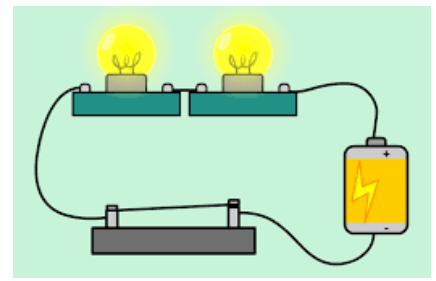
My future...

- Scientist
- Doctor
- Dentist
- Archaeologist
- Engineer
- Chemist
- Teacher
- Biochemist
- Astronaut
- Anthropologist
- Environmentalist
- Naturalist
- Wildlife documentary presenter

conductor  
insulator  
switch  
circuit  
buzzer  
cells  
wires  
fuse



battery  
component  
motor  
voltage  
function  
symbols  
graphite  
series  
parallel



positive  
negative  
charges  
insulating  
resistance  
current  
amperes  
branches  
electrons