Summer 1 - Science – Electricity

Year Five and Six

O C A B U L A R

electricity

components

cell

battery

complete circuit

incomplete circuit

function

bulb

buzzer

motor

switch

brightness

loudness

symbols

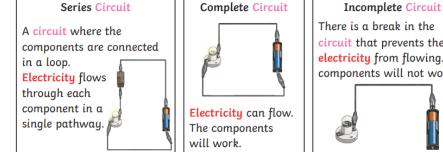
voltage

By the end of this unit, you will be able to draw circuits using the correct symbols and be able to discuss each circuit using the appropriate scientific vocabulary. You will be able to investigate how the number of components within a circuit may affect the effectiveness of the bulbs/buzzers etc.

Important information



Prior learning



There is a break in the circuit that prevents the electricity from flowing. The components will not work.

In your previous learning, you have created simple circuits using a range of components. Furthermore, you will have tested materials to identify whether they are electrical conductors or insulators earlier this year.

This term, you will investigate the efficiency of some of these components within different types of circuits. To work safely with circuit components in the classroom:

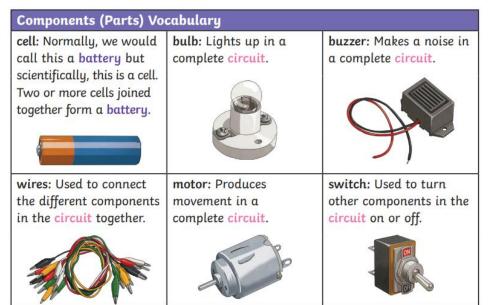
 None of the equipment needs to use mains power, so do not put any of it in or near plugs.

 Report any damaged or broken equipment to your teacher. Do not use it.

• Only use equipment as instructed.

• Connect equipment correctly.

• Disconnect equipment after use and put it away neatly.



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Learning objective/Learning question		What you will learn	Learning Review
1	Short session - I can recall how to make a complete series circuit What components did you use in your simple circuit?	You will revisit your prior learning and be able to create a simple circuit using the correct symbols.	
2	I can recognise and draw scientific circui symbols Can you draw two different symbols for bulb within the learning review box?	where you match the scientific symbols. After that, you will label some circuit diagrams with their components. When shown a picture of a circuit, you will be able to draw it using the	
3 and 4	I can investigate the function of different components in a circuit How does adding an extra bulb to a simp circuit affect the brightness of the light emitted from the bulbs?	how altering the components within a circuit can affect their function. You will apply your	
5	I can investigate some STEM careers that are linked to electricity Can you name 3 different careers that ar related to electricity?	Using the information on the NUSTEM careers website, you will answer some questions about each of the careers listed.	
6	I can research a scientist that has been influential in the area of electricity Can you name the scientist you research and one key fact about their discoveries inventions?		