



ALMOND HILL JUNIOR SCHOOL MEDIUM TERM PLAN

TOPIC TITLE/SUBJECT: Science - Electricity

YEAR GROUP: 6

TERM: Summer 2

<p>Vocabulary</p> <ul style="list-style-type: none"> circuit symbol battery cell current amps voltage resistance electrons motor electricity/power 	<p>Skills <i>Enquiry and working scientifically skills (UKS2)</i></p> <ul style="list-style-type: none"> plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs use test results to make predictions to set up further comparative and fair tests report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations identify scientific evidence that has been used to support or refute ideas or arguments. 	<p>What we already know (from Y4 electricity unit)</p> <ul style="list-style-type: none"> Electricity is a power source and batteries are a source of electricity. Most common appliances are powered by electricity Some devices are mains operated and some are operated by battery A switch opens and closes a circuit Definition of 'conductors' and 'insulators' and how to construct a simple circuit Electricity is powerful and can be very dangerous
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Illustration/ Outcomes

Plan, conduct and develop an investigation using scientific enquiry

Scientific Circuit Symbols Mat

Electricity Investigation

I can plan an investigation to understand variations in how components function.

Fair and Comparative Test

Question: _____
 Prediction: _____
 What will you change? _____
 What will you measure? _____
 What will you control (keep the same)? _____

Learn about scientists in field of electricity:
 Thomas Edison and Nikola Tesla

Using symbols to represent circuit components

Children use what they know to create their own torch

Other/Cross -Curricular links with English/Maths/Adaptation for SEND

SEND – (word banks, differentiated tasks, adult support, use of Ipads for research etc)

Maths – use of a range of tables and keys

Speaking and listening – suggest reasons for ideas and listen to the ideas of others – debate opinions based on evidence

Topic Reading/English – Research and comprehension skills (via learning about famous scientist.

Concepts

- Understanding of electricity has changed over time
- Electricity is powerful and can be dangerous
- 'Amount' of electricity (voltage) depends on the number of batteries
- Voltage can be controlled (increased/decreased)
- Major discoveries led to widespread use of electricity

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