ALMOND HILL JUNIOR SCHOOL MEDIUM TERM PLAN

TOPIC TITLE/SUBJECT: Science - Electricity **YEAR GROUP: 6** **TERM: Summer 2**

<table>
<tr>
<td>Vocabulary
circuit
symbol
battery
cell
current
amps
voltage
resistance
electrons
motor
electricity/power</td>
<td>Skills
<u>Enquiry and working scientifically skills (UKS2)</u>

• 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.</td>
<td>What we already know (from Y4 electricity unit)

• 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</td>
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<td colspan="2">Outcomes
• Plan, conduct and develop an investigation using scientific
• Learn about scientists in field of electricity: Thomas Edison and Nikola Tesla
• enquiry
• Children use what they know to create their own torch
• Using symbols to represent circuit components</td>
<td>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.</td>
<td>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</td>
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