

Overview – Year 4 Summer 1 Electricity

Lesson	Objectives	Scientific enquiry	Equipment list
1. What is electricity?	<ul style="list-style-type: none"> Recall different types of electricity Know what is meant by electricity Know how static electricity is made 	Investigating static electricity Observation over time Make simple conclusion	Tablespoon, teaspoon, plate, salt, pepper, plastic rod or ruler, cloth
2. How do we produce electricity for our homes?	<ul style="list-style-type: none"> Know what is meant by electric current Describe some ways electricity is made Explain what a circuit is 	Make a potato clock Follow a simple practical procedure Make a conclusion	2 potatoes, 2 pennies, 2 galvanized nails 6 crocodile clips, 3 wires, small digital clock
3. What are the parts of a circuit?	<ul style="list-style-type: none"> Recall the different components of a circuit Describe how different components have different uses in devices Explain how a switch helps us control a circuit 	Building circuits Pattern-seeking Make conclusions based on evidence Work safely with equipment Suggestions for further enquiry	Balloon, plastic bowl, water, straw, Sellotape, cardboard box, cardboard tube, card
4. Conductors or insulators?	<ul style="list-style-type: none"> Define the volume of a sound Describe how volume can be increased Explain some negative effects of loud sounds 	Testing conductors and insulators Building circuits Pattern-seeking Make conclusions based on evidence Work safely with equipment Suggestions for further enquiry	Bulb, wires, cells, range of conductors and insulators (pencil, rock, wood, paper, key, paperclip, mirror)
5. Is electricity safe?	<ul style="list-style-type: none"> Define a hazard Identify some electrical hazards Explain how insulators can be used for protection 		

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6. How has electricity changed the world?	<ul style="list-style-type: none">• Consider the availability of electricity around the world• Discuss some of the social issues around electrical supply• Suggest some solutions for supplying electricity		
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