

Science Year 4

Knowledge Organiser



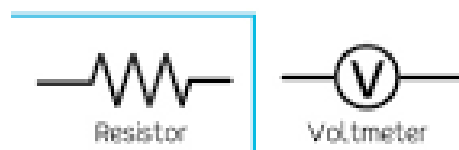
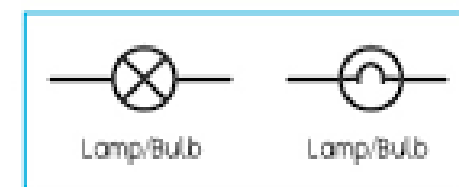
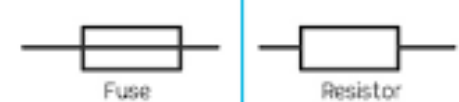
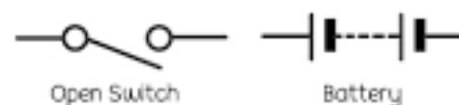
Topic: Electricity

National Curriculum Statements

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

Key vocabulary

Circuit	 A type of energy that can make things work
Appliance	 A path that electricity can flow around
Component	 Something that uses electricity to do a job
Conductor	 A part of an electrical circuit
Insulator	 A material that lets electricity flow through it easily
Current	 A materials that does not let electricity pass through it
Electricity	 The flow or movement of electricity
Charge	 The energy stored in a battery that pushes electricity
Battery	 A container that stores electrical energy
Cell	 A single unit that generates electricity



I am a scientist as I gather evidence and use research from previous scientists, to make hypotheses and test them through experiments. I discuss results and draw conclusions.

Key enquiry questions:

- What is electricity?
- Which materials conduct electricity?
- What makes an electrical current?
- How can we classify electrical devices?