



St Leo's and Southmead
Catholic Nursery and Primary
School

Year
Four

Science Knowledge Organiser

Autumn
Term 2

Amazing Activities

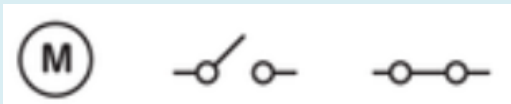
- Investigating found materials to find out if they are conductors or insulators
- Creating an alarm for the classroom

Electricity

Key Concepts

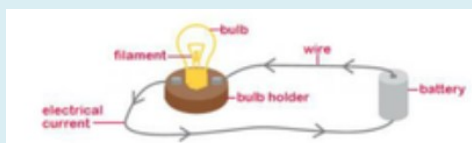


Battery Wire Bulb Buzzer



Motor Switch (off) Switch (on)

Circuits:



Electricity

Objectives

Pupils should be taught to:

- ◆ identify common appliances that run on electricity
- ◆ construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers
- ◆ identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery
- ◆ recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit
- ◆ recognise some common conductors and insulators, and associate metals with being good conductors.



Curriculum Links

- **History Link:** Children to find out about the history of Electricity
- **Maths Link:** Opportunities data handling work using the information collected during Investigations.



Key Vocabulary

Electricity	A form of energy from charged particles
Bulb	A glass bulb that provides light by passing a current through a filament
Battery	Consists of 1 or more cells where chemical energy is converted into electrical power
Buzzer	An electrical device that makes a sound
Circuit	A complete / closed path around which a circulating electrical current can flow.
Conductor	A material or device which allows heat or electricity to flow through
Insulator	A material or device which does not allow electricity to flow through
Current	A flow of electricity from electrically charged particles