



BRABIN'S ENDOWED PRIMARY SCHOOL

Class: Oak Year 5/6 Term: Autumn 2 2025
Curriculum Unit -The Amazon

Key Learning Overview:-

Geography- Interconnecting Amazon: A study of the Amazon region with a focus on the indigenous people who live there.

History- a study of the life of Abel Heywood- Mayor of Manchester in the 1800's.

Science- Children will be able to build more complex working circuits and recognise and use the corresponding symbols.

DT- Children will be able to design and create an electrical system that incorporates structures, mechanical and computer systems.

Computing- To create vector drawings using software.

Writing Opportunities- we will write: a story based on another culture (South American), a discussion and create non-fiction speeches to share in a class debate.

Class Novel, key texts and extracts- Novel: The Explorer

Extracts: The Vanishing Rainforest, The Great Kapok Tree, Kenske's Kingdom and Deforestation reports

Curriculum Shapers

- Be Curious: develop an appreciation of and responsibility for the environment and experience contrasts with the Amazon
- Be Knowledgeable: develop subject specific language, manage, receive, record and apply information, nurture a thirst for knowledge and apply cross-curricular skills
- Be Adventurous: experience exhilaration, challenge and achievement
- Be Ambitious: see possibilities
- Be Creative: develop creative thinking skills and question why
- Be Collaborative: respect the opinions and difference of others and value one's own perceptions and others
- Be Reflective: make lifestyle choices in relation to learning and identify new aptitudes

Key Questions

- Where in the world is the Amazon Basin and in which countries is it located?
- How is the rainforest in the Amazon Basin changing? Why is the rainforest changing?
- How does this region of South America compare and contrast with regions we have studied before?
- What is an electrical circuit and which symbols correspond with each part?
- How can I create a product which incorporates electricity?

Key Skills Coverage - Science

Prior Knowledge

- Year 1/2: Uses of everyday materials
- Year 3/4: Forces and magnets
- Year 3/4: Light
- Year 3/4: Electricity:
 - 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
 - recognise that a switch opens and closes a circuit
 - recognise some common conductors and insulators, and associate metals with being good conductors.

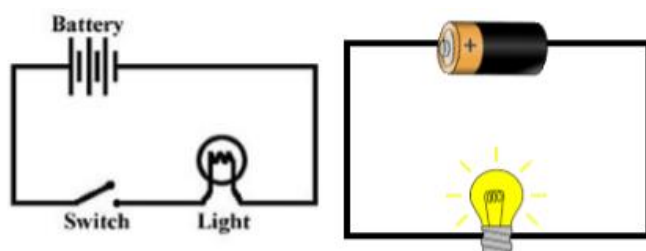
Key Scientific Skills

Knowledge

- Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.
- Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches.
- Use recognised symbols (at least: cells, wires, switches, bulbs, buzzers and motors) when representing a simple circuit in a diagram.
- Use and interpret circuit diagrams to construct a variety of more complex circuits predicting whether they will 'work'.

Working Scientifically

- By systematically identifying [**testing**] the effect of changing one component at a time in a circuit.
- By designing and making an item that includes an electrical component



Key Vocabulary

Electricity - a form of energy that can be carried by wires and is used for heating and lighting, and to provide power for devices

Energy- the power from sources such as electricity that makes machines work or provides heat

Conductor- a substance that heat or electricity can pass through or along

Insulator- a non-conductor of electricity or heat

Current- a flow of electricity through a wire or circuit

Battery/cell- small devices that provide the power for electrical items such as torches

Bulb- the glass part of an electric lamp, which gives out light when electricity passes through it.

Motor- a device that uses electricity or fuel to produce movement

Switch- a small control for an electrical device which you use to turn the device on or off

Wires- a long thin piece of metal that is used to fasten things or to carry electric current

Buzzer- an electrical device that is used to make a buzzing sound

Key Skills Coverage - DT

Prior Knowledge

- Year 1/2: Mechanisms-pop ups and simple card levers
- Year 1/2: Mechanisms- axles and wheels
- Year 1/2: Structures- stability and strength
- Year 3/4: Mechanical Systems- levers and linkages
- Year 3/4: Control- electrical systems
- Year 3/4: Structures shell and frame- strengthening

Key Design Skills

Mechanical and Electrical Systems and ICT

Record ideas using annotated diagrams.

Complete drawings to refine ideas.

Cut dowel, square section wood accurately to 1mm.

Build frameworks to support mechanisms.

Make a structure that incorporates electrical, mechanical and computer systems.

Identify strengths and weaknesses of their design and explain these.

Review their product and record how it can be improved.

Understand that mechanical and electrical systems have an input, process and an output.

Key Vocabulary

Axle- Rod on which one or more wheels can turn.

Cam-Specially shaped wheel, or one with a hole off-centre; when it rotates, anything resting on its edge will bob up and down, as in a pull-along toy.

Dowel-Wood cut to a cylindrical shape, available in various widths.

Pulley-A grooved wheel over which a rope can run.

Shaft-A rod which transmits motion

Wheel-Circular frame or disc which rotates about a centre, enabling linear (straight-line) movement from circular motion.

Control-Process of making an action take place; computer control involves programming the computer so it will instruct a device to carry out an action

Framework-A structure made by joining together a number of pieces of wood, metal, card or plastic.

Linkage-A means of connecting components together usually so they can move.