

Knowledge and Skills this Term

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, 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

Art

Use sketch books to develop and refine ideas and plan for a specific outcome.

Sound

Identify how sounds are made, associating some of them with something vibrating

Recognise that vibrations from sounds travel through a medium to the ear

Find patterns between the pitch of a sound and features of the object that produced it

Find patterns between the volume of the sound and the strength of the vibrations that produced it

Recognise that sounds get fainter as the distance from the sound source increases

Working Scientifically

- Ask relevant questions and use different types of scientific enquiries to answer them.
- Set up simple practical enquiries, comparative and fair tests.
- Know which are control dependent and independent variables in a fair test which they conduct.
- Identify one or more control variables from those provided when conducting a fair test.
- Make observations and take increasingly accurate measurements using standard units (e.g. to a decimal point)
- Use a range of equipment, including thermometers and data loggers.
- Gather, record, classify and present data in a variety of ways to help in answering questions.
- Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.
- Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.
- Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.
- Identify differences, similarities or changes related to simple scientific ideas and processes.

Vocabulary

Electricity

appliance, circuit, series circuit, charge, cell, wire, bulb, switch, buzzer, loop, battery, open circuit, closed circuit, conductor, insulator, components, electron, current, static electricity, emit

Art

Pattern, shape, line, form, tone, texture, colour, mood, scale, Horizon, Focal point, Observational, Landscape, Portrait, Figures, View finder, composition, Mid ground, Back ground, Foreground

Sound

amplitude, decibel, energy, frequency, medium, power, soundwaves, vibrate, vibrations, air, source, transmit, travel, pitch, volume, high, low, quiet, loud, faint, eardrums, energy