to identify sources o sounds.
recognise that vibrations from sounds travel through a medium to the ear
find patterns between the volume of a sound and the strength of the vibrations that produced it

recognise that sounds get fainter as the distance from the sound source increases.
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.
explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object
identify the effects of air resistance, water resistance and friction, that act between moving surfaces
seasons and how day length varies.


## identify common

 appliances that run on electricityconstruct a simple series electrical circuit, identifying and naming its basic parts; 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

$\square$


Leighfield
Primary School
recognise that shadows are formed when the light from a light source is blocked by an blocked by an
opaque object change group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials


Learning for Life
recognise that light from the sun can be dangerous and that there are ways to protect their eyes. notice that light is reflected from surfaces
recognise that they need light in order to see things and that dark is the absence of light
find patterns in the way that the size of shadows
observe how magnets attract
or repel each other and attract some materials and not others
notice that some forces need contact between two objects,
but magnetic forces can act at a distance
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

5arth and Space describe the movement of the Earth, and other planets, relative to the Sun in the solar system describe the movement of the Moon
describe the Sun, Earth and Moon as approximately spherical bodies use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the
predict whether two magnets will attract or repel each other, depending on which poles are facing
describe magnets as having two poles
recognised symbols when representing a simple circuit in a
 sources to our eyes or from light sources to objects and then to our eyes use the idea that light travels in straight lines to explain why shadows have the same shape as
 buzzer with the number and voltage of cells used in the circuit
recognise that light appears to travel in straight lines use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye




