

Nova Primary Knowledge Organiser

Line of enquiry: How can science educate and entertain us?

Year 3 Term 3 & 4

Big idea:

Key subject areas: Science and DT

What should I already know?

The shape of some materials can be changed when they are **stretched, twisted, bent** and **squashed**.

Know how different toys move.
Know what a **force** is and be able to explain that a **push** and **pull** are types of **forces**.

That when **forces** are applied to an object they allow them to move or stop moving.

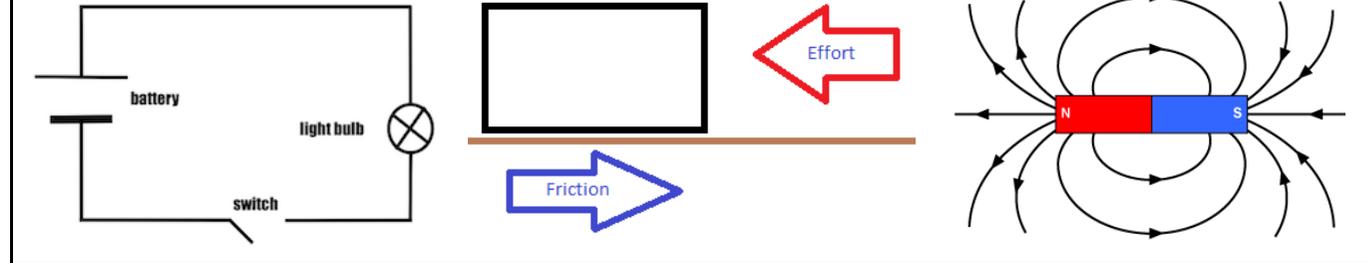
The strength of the **force** determines how far and fast an object moves.

How to perform a simple test

Asking simple questions and answering them in different ways

The properties of everyday materials

Diagram



What will I know by the end of this line of enquiry?

- You will be able to identify common appliances which run on electricity and which materials conduct and insulate electricity
- How to construct a simple circuit
- The importance of different elements of a circuit
- To predict if magnets will attract or repel
- How magnets react with different materials
- How to design and develop simple constructions
- How to use a range of tools to perform simple practical tasks (cutting, joining, drilling)

Key vocabulary

Circuit	A path or line which electricity can flow
Insulator	A substance that stops or slows down electricity
Conductor	A substance that allows electricity to flow through it
Material	The matter that something is made out of
Cell	A device capable of holding an electrical charge
Wire	A long thin piece of metal designed to carry electricity
Bulb	A glass lamp which lights up when in contact with electricity
Buzzer	An electrical device which makes a noise when in contact with electricity
Drill	A tool which rotates to make a hole
Saw	A tool used to cutting materials with sharp teeth
Magnetic	A material which is attracted to magnets
Appliance	A device powered by electricity to perform a specific task
Switch	A controlled break in a circuit