



Year 3 - Autumn 2 - Science Knowledge Organiser

What I already know...

The names of different materials:

- Wood, plastic, metal, paper, fabric, rubber

Materials have different properties such as :

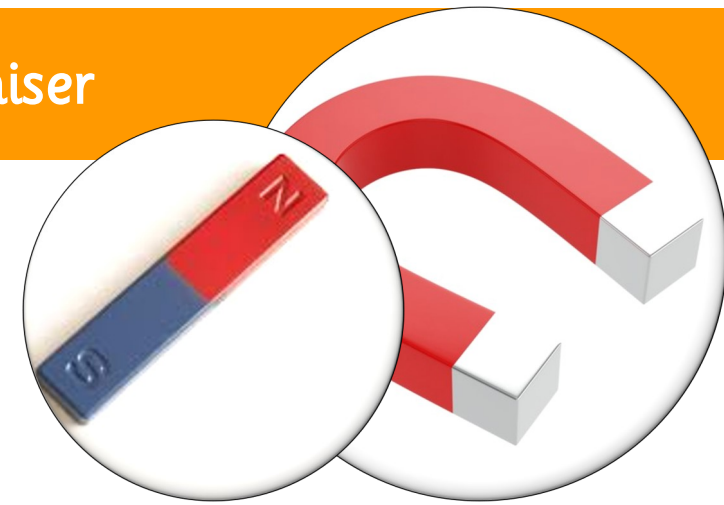
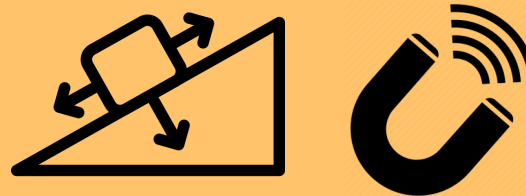
- Hard, soft, flexible, smooth, rough, waterproof

Key Vocabulary

Forces	Pushes or pulls
Friction	A force that acts between the surfaces of objects that are moving across each other
Magnet	An object that creates a magnetic force
Magnetic	Objects which are attracted to a magnet
Poles	North and South poles are found at different ends of a magnet
Repel	To push other objects away
Attract	To pull objects together

What I will learn...

- There are different forces that act on Earth: Gravity, friction, magnetism
- Some are contact forces, some are non-contact.
- Friction affects the way things move as surfaces touch each other.
- Magnets have a North and South Pole.
- Like poles repel, opposite poles attract.
- Some materials are magnetic, most are not.
- Iron is magnetic, so any object with iron in it (e.g. steel) will be magnetic.
- All non-metals are NOT magnetic.
- Magnetism can work at a distance without contact.



Making a difference at The Merton

Children will be inspired by the invisible forces that exist and act all around them. They will work together to investigate, observe and make predictions with magnets.

They will learn about real life use of magnets and discover their uses in our everyday lives including how we can use magnets to solve problems such as food waste and energy consumption.

Making a difference at home

You could investigate magnets and magnetic materials in your home. Check your fridge to see if you have any magnets there, and then get exploring!

There are some great videos and explanations on here:

<https://www.bbc.co.uk/bitesize/topics/zyttyrd>