



Mickleover Primary School – Science Knowledge Organiser

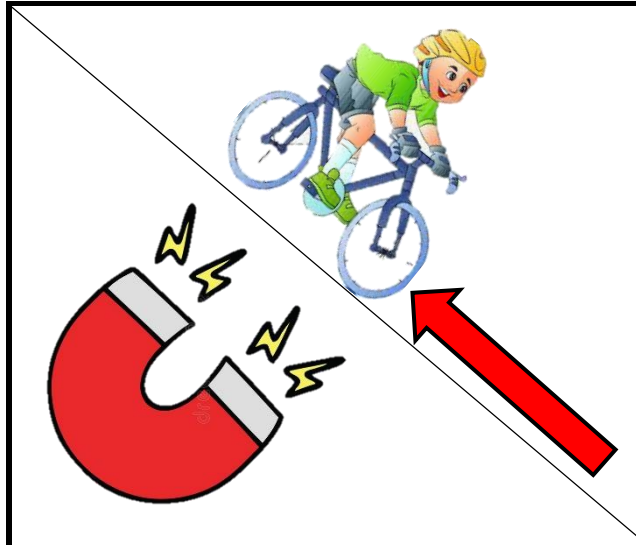
Title: Forces and Magnets

Year Group: 3

Term: Autumn 1

Vocabulary you will know...

Forces	Pushes or pulls.
Push	A push is a force that moves an object away.
Pull	When a force brings an object closer, that is a pull.
Attract	Attraction is a force that pulls objects together.
Repel	Repulsion is a force that pushes object away.
Magnet	An object that produces a magnetic force that pulls certain objects towards it.
Magnetic	Objects which are attracted to a magnet are magnetic.
Poles	North and south poles are found at opposite ends of a magnet.
Surface	The top layer of something
Friction	A force that acts between 2 surfaces or objects that are moving across each other.



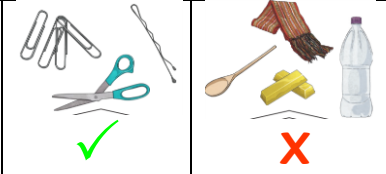
Key Learning

- What a **magnet** is
- What a **magnetic** field is
- How **poles** can **attract** and **repel**
- Name **magnetic** and non-**magnetic** materials
- Different types of **forces**
- How **surfaces** can effect **forces**

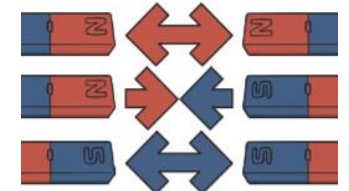
Key Knowledge - Magnets

Magnetism is an invisible **force**. You can't see it, but you can see its effects.

Magnetic materials contain nickel, iron or cobalt.
Not all metals are magnetic.



Like **poles** **repel**.
Opposite **poles** **attract**.



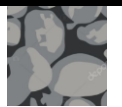
Key Knowledge - Forces

Different **surfaces** create different amounts of **friction**. **Friction** is always working against an object to slow it down.

The rougher the **surface**, the more **friction** there is.



Grass



Gravel

The smoother the **surface**, the less **friction** there is.



Glass



Ice

MOTIVATED

PROUD

SUCCESSFUL