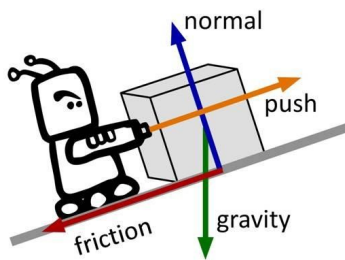




Topic: Science

Year: 3

Strand: Forces and Magnets



Enquiry Questions

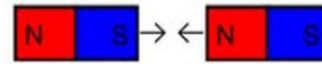
- Can magnetic forces can be transmitted without direct contact?
- Can I discuss how some magnets attract and repel each other?
- Which materials are attracted to magnets?
- How can I describe the speed and direction of moving object ? (Using friction)

Key Vocabulary

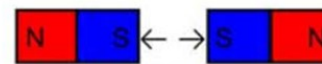
Forces		Pushes, pulls or twists.
Friction		A force that acts between two surfaces or objects that are moving, or trying to move, across each other.
Surface		The top layer of something.
magnet		An object which produces a magnetic force that pulls certain objects towards it.
Magnetic		Objects which are attracted to a magnet. They contain iron, nickel or cobalt.
poles		North and south poles are found at different ends of a magnet.
repel		Repulsion is a force that pushes objects away.
attract		Attraction is a force that pulls objects together.

Forces and Magnets

Magnets have two poles



Opposite poles attract



Same poles repel

A magnet attracts magnetic materials.

These metals are magnetic:	
iron nails 	nickel 50p coins contain nickel
stainless steel 	steel

Objects moving on surfaces:



Ice skates have a sharp blade. This helps them move better on ice.

It is much harder to walk on ice in trainers.

A bowling green is closely mown so the grass is short and the balls roll easily.



Retrieval Quiz

1. What is the most dominant force in the following actions.
 - A. Kicking a football:
 - B. Opening a door.
 - C. Helping someone up off the ground.
2. What is meant by the term **magnetic**.
3. What is the scientific term of a material '**sticking**' to a **magnet**?
4. Name at least **one** material that is **magnetic (not just metal)**
5. Name 4 materials that are **not magnetic**.
6. What is the force that acts between two surfaces that can slow down or stop them from moving?

Websites and useful links

<https://www.bbc.co.uk/bitesize/clips/zk9rkqt>