

Physics: Forces and Magnets

What should I already know?

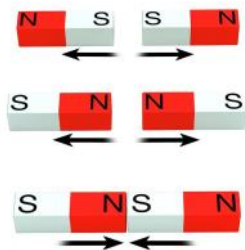
- How to distinguish between an object and the material it is made from.
- How to compare and group objects based on their physical properties.

What am I going to learn?

- Objects move differently on different surfaces due to forces and friction.



- Some forces need contact between two objects, but magnetic forces can act at a distance.
- Magnets have two poles, north and south.
- Magnets attract or repel each other.
- Magnets attract some materials and not others.



Vocabulary

Magnet	An object that produces a magnetic force.
Poles	North and south poles are found at different ends of the magnet.
Repel	A force that pushes something.
Attract	A force that brings something closer.
Magnetic field	The area surrounding a magnet where the force is acting on another magnet or magnetic material.
Force	A push or pull on an object.
Friction	A force that acts between two surfaces.
Surface	The top layer of something.

Enquiry Types	Observing changes over time	Pattern Seeking	Identifying, Grouping and Classifying
	Fair Testing	Research	Problem Solving

Working Scientifically

- I will plan and perform an enquiry to compare how different objects move on different surfaces.
- I will interpret the results from my enquiries to discover the best material for a slide.
- I will group materials into those that are magnetic and those that are not.
- I will plan and perform an enquiry to find out how magnetic forces act through different materials.

Connecting Concepts



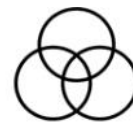
Plan/perform investigations



Compare



Interpret and communicate results



Identify, group and classify