

Key Enquiry Question: What are forces and how can we use magnets to test these forces?

National Curriculum

- Compare how things move on different surfaces
- notice that some forces need contact between 2 objects, but magnetic forces can act at a distance
- observe how magnets attract or repel each other and attract some materials and not others
- compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials
- describe magnets as having 2 poles
- predict whether 2 magnets will attract or repel each other, depending on which poles are facing.



Key Vocabulary	Meaning
Magnetic Force	A force which attracts objects with the opposite charge. It does not need to touch objects to move them.
Charge	An object can have a positive or negative magnetic charge.
Attract	Two objects which will come together.
Repel	Two objects which will not come together.
Material	What something is made from, such as a paperclip is made from metal.
Magnetic	A material can be magnetic and be attracted by a magnet.
Magnet	A scientific piece of equipment which can be used to test if an object is magnetic or not.

Sticky Knowledge

- Magnetic forces act without contact.
- Some materials will be magnetic and hold the opposite charge to the magnet. This means they can be attracted.
- Some materials will not be magnetic and hold the same charge as the magnet. This means they will be repelled.
- Magnets have two poles which hold a negative or positive charge.