



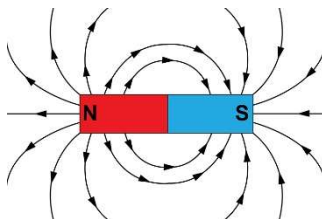

Forces and Magnets

Class 3 and 4

Key Vocabulary – New for Year 3

Forces	Pushes or pulls.	Magnet	An object that creates a magnetic force that pulls certain objects towards it.	Poles	North and south poles are found at different ends of a magnet.
Friction	A force that acts between two surfaces of objects that are moving, or trying to move, across each other.	Magnetic	Objects which are attracted to a magnet are magnetic. Objects containing iron, nickel or cobalt metals are magnetic.	Repel	Repulsion is a force that pushes objects away e.g. north pole and north pole.
Surface	The top layer of something.	Magnetic field	The area around a magnet where there is a magnet force which will pull magnetic objects towards the magnet.	attract	Attraction is a force that pulls objects together e.g. north pole and south pole.

Key Knowledge

What is a force?	<p>A force is a push or a pull. Forces change the motion of an object. They will either make it start to move, speed up, slow it down or even make it stop.</p> <div></div> <p>PUSH PULL</p>	What is a magnetic field?	<ul style="list-style-type: none">• A magnetic field is invisible. You can use iron filings on paper to observe the force of the magnetic field when you use a magnet underneath the paper.• Like for like poles attracts.• The needle in a compass is magnetic. A compass always points north-south on Earth. 
How is friction created?	<p>Different surfaces create different amounts of friction. The amount of friction created by an object moving over a surface depends on the roughness of the surface and the object, and the force between them.</p>	What objects are magnetic?	<div><div></div><div><p>Magnetic Objects: Contain iron, nickel or cobalt. Not all metals are magnetic.</p><p>Non-magnetic Objects: Do not contain iron, nickel or cobalt.</p></div></div>

Prior Learning

Children will have explored how things work.

Next Steps

Children will learn about forces in action e.g.

- Air resistance
- Gravity
- Friction
- Buoyancy

Children will also learn about the solar system.