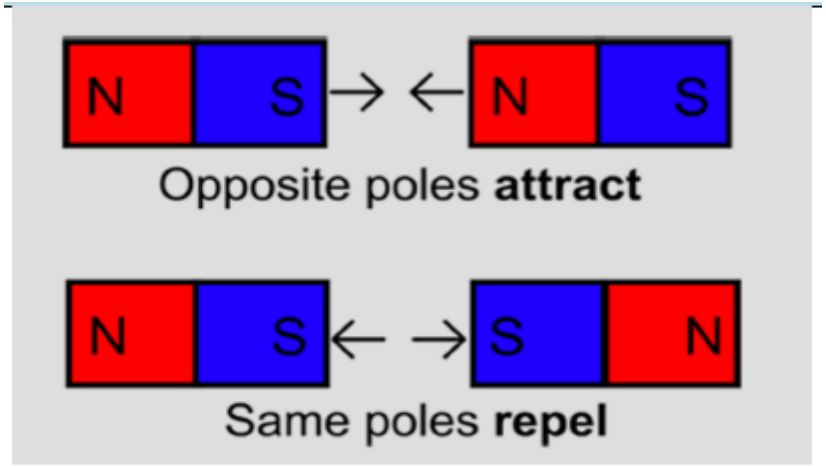
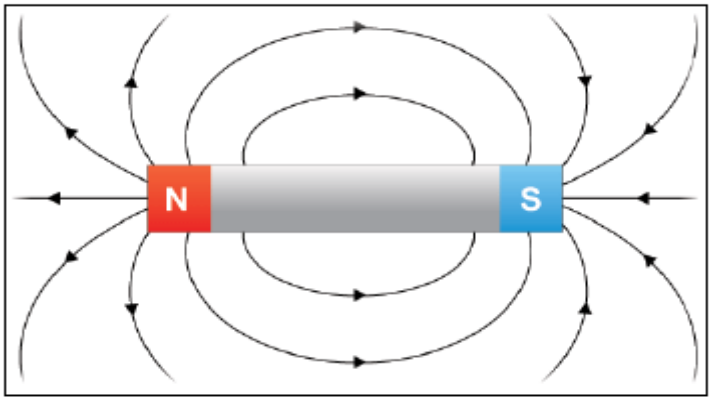
St. Paul's C of E VA Primary and Nursery School
Knowledge Organisers

Year Group: Year 3	
Topic: Forces and Magnets	
VOCABULARY	
force	The scientific word for the pulling and pushing effect
friction	The force that makes it difficult for things to move when they touch each other.
motion	Moving from one place to another
accelerate	Speeding up
decelerate	Slowing down
balanced force	When two forces are equal and there is no motion
magnet	A piece of iron or other material which attracts some metals towards it
magnetic	Something that acts like a magnet
pole	North and South ends of a magnet
attract	The force of one object pulling another object towards it
repel	The force of one object pushing another object away from it
magnetic field	The area around a magnet where the magnetic forces work



Magnetic Materials	Non-Magnetic Material
1. Iron	1. Aluminium
2. Steel	2. Copper
3. Nickel	3. Gold
	4. Silver

Magnetic Field Diagram



Magnetism is strongest at the ends of the magnet.

How does a compass work?

This is a compass



1. A compass is used to find which direction you are facing.
2. They were invented over 2000 years ago
3. It was often used by sailors and explorers in the past to help find their way
4. The thin metal pin inside is suspended so it can spin freely
5. The pin always points North
6. Now people often use Global Positioning Systems (GPS) rather than a compass

Points of the Compass

