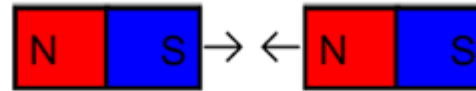
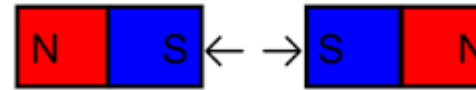


Vocabulary Dozen

force	The scientific word for the pushing and pulling effect	In physics, a force is the pulling or pushing effect that something has on something else.
friction	The force that makes it difficult for things to move when they touch each other	Friction is the force that makes it difficult for things to move freely when they are touching each other.
motion	A motion is an action, gesture, or movement	The motion of the boat made me feel sick.
accelerate	Speeding up	The car accelerated out of the car park.
decelerate	Slowing down	I need to decelerate or I will fall off my bike.
balanced force	When two forces are equal and there isn't any motion	When we pushed the door on either side there was a balanced force so the door did not move.
magnet	A piece of iron or other material which attracts some metals towards it.	The magnet picked up all the paper clips.
magnetic	Capable of being attracted by a magnet or acquiring the properties of a magnet	Because the fridge is magnetic my magnet stuck to it.
pole	Each of the two opposite points on the surface of a magnet at which magnetic forces are strongest.	The poles of the magnet are coloured red and blue on my magnet.
attract	The force of one object pulling another object towards it	My magnet can attract different objects.
repel	The force of one object pushing another object away from it	Two magnetic poles repel each other.
magnetic field	The area around a magnet where the magnetic force works	Some magnets have a very strong magnetic field .



Opposite poles attract



Same poles repel

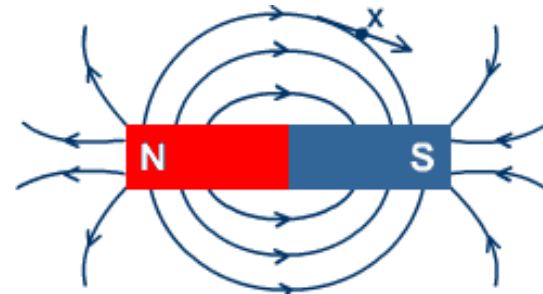


This is a **compass**.

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 navigate their way around the world
4. The thin metal pin inside is suspended so that it can spin freely
5. The pin always points North
6. Today people usually use a Global Positioning System (GPS)

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

Magnetic Field Diagram



Magnetism is strongest at either end of the magnet

