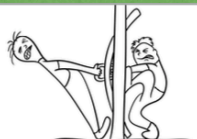

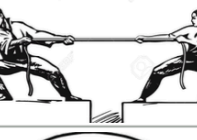

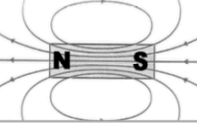
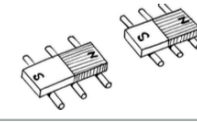
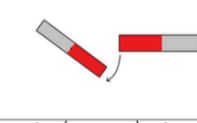
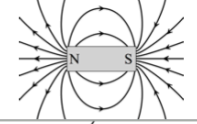

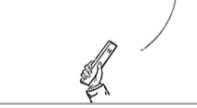
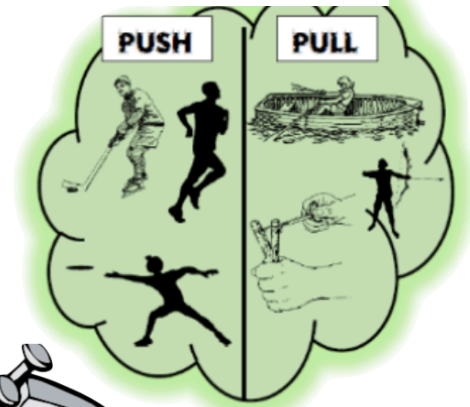
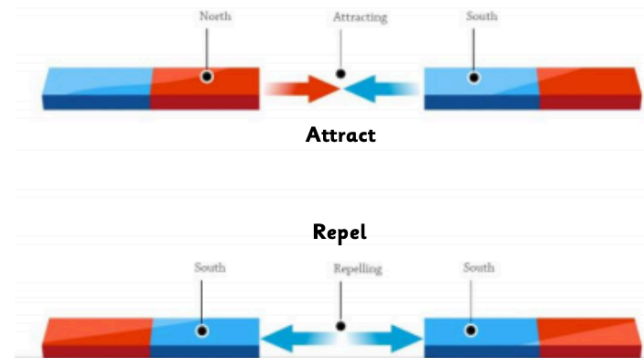


Key Vocabulary		
force	The scientific word for the pushing and pulling effect	
friction	The force that can make it difficult for things to move when they touch each other	
balanced force	When two forces are equal and there is no movement	
magnet	A piece of iron or other material which attracts some metals towards it	
magnetic	Objects that can be pushed or pulled by 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	
contact force	A force that requires physical contact to occur e.g. kicking a ball	
non-contact force	The magnet does not need to touch the object it attracts	

Forces and Magnets - Y3

To be able to compare how things move on different surfaces.
 To be able to observe how magnets attract or repel each other and how they attract some materials and not others.
 To be able to notice that some forces need contact between two objects but that magnetic forces can act at a distance.
 To be able to group materials on whether they are attracted to a magnet or not and identify some magnetic materials.



Key Questions

What is a force?

A **force** is a **push** or **pull** acting on an object. Forces can make objects speed up, slow down, stop or start moving.
 For some forces to act, there must be contact.
 Some forces can act at a distance, such as **magnetism**.

What is friction?

When an object moves on a surface, the texture of the surface and the object will affect how it moves. This is **friction**. It is easier to push or pull something along a smooth surface than a bumpy surface.

What do we know about magnets?

Magnets have two poles - north and south. The strongest parts of the **magnet** are the **poles**. If we put the different poles of two magnets together they will come together, or attract. If we put the same poles of two magnets together they will push apart, or repel.

Are all materials magnetic?

Magnets cannot pull or push anything made of wood, plastic and some other materials. Some metals are **magnetic**, but not all metals.