

# Year 3 Science Knowledge Organiser - Forces

## Key Information

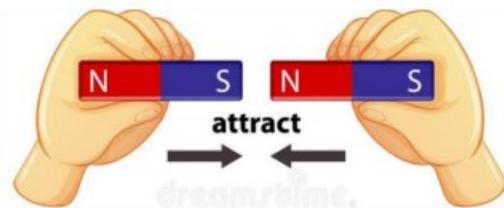
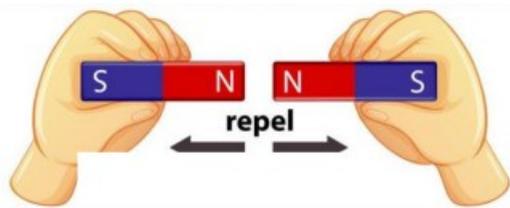
- Magnets have a north pole and a south pole.
- Opposite poles attract.
- The same poles repel.
- Plastic, rubber and wood are not magnetic.
- Not all metals are magnetic.
- Iron, nickel and steel are magnetic.
- Copper, aluminium, lead and brass are not magnetic.
- Gravity and magnetism are non-contact forces.

## Misconceptions

- Some people think that that objects have to make contact to cause a force but magnetic force can act at a distance.
- Some people think that all metals are magnetic but they are not.

## Vocabulary

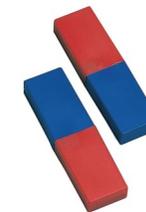
<b>forces</b>	Change the speed, direction or shape of an object.
<b>friction</b>	A contact force which acts when objects move against each other,
<b>magnet</b>	An object that creates a magnetic field that pulls other magnetic objects towards it.
<b>repel</b>	pushes objects away.
<b>attract</b>	pulls objects together.



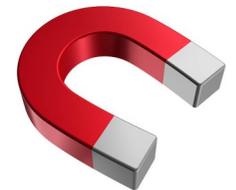
ring magnet



Button magnet



bar magnet



horseshoe magnet

