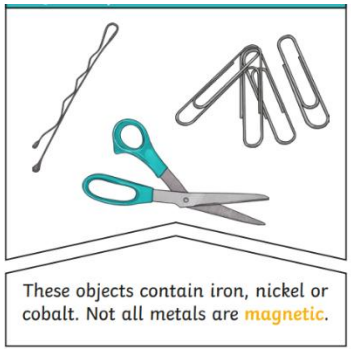
Forces and magnets

Useful Vocabulary

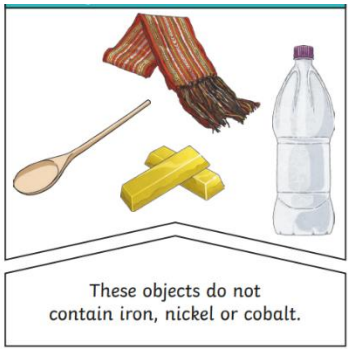
contact	touching
pendulum	a weight hanging from a fixed point which swings backwards and forwards
pull/pulling	(verb) to move toward/(noun) a move toward
surface	the outside or top of something
texture	how a surface or material feels
contact force	where the object providing the force is touching (in contact with) the object it is moving
attract	to draw something closer
like poles	the same poles, i.e. north and north or south and south
magnetic	able to be attracted by a magnet
magnet	an object that can pull certain types of metals towards it
non- contact force	where the force moves something without touching it
Repel	to push something away

Magnetic



These objects contain iron, nickel or cobalt. Not all metals are magnetic.

Non-magnetic

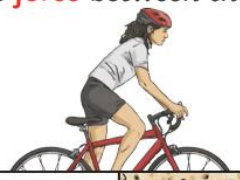


These objects do not contain iron, nickel or cobalt.

Key knowledge on forces

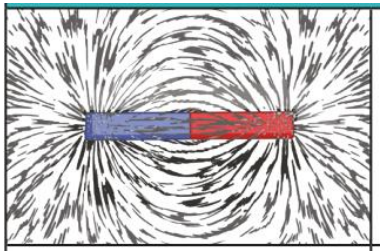
Different surfaces create different amounts of friction. The amount of friction created by an object moving over a surface depends on the roughness of the surface and the object, and the force between them.

The driving force pushes the bicycle, making it move.

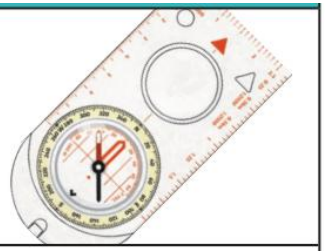


Friction pushes on the bicycle, slowing it down.

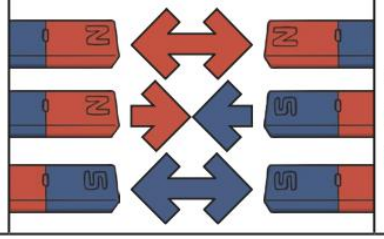
Key knowledge on magnets



Like poles repel.
Opposite poles attract.



A magnetic field is invisible. You can see the magnetic field here though. This is what happens when iron filings are placed on top of a piece of paper with a magnet underneath.



The needle in a compass is a magnet. A compass always points north-south on Earth.