

Key Vocabulary

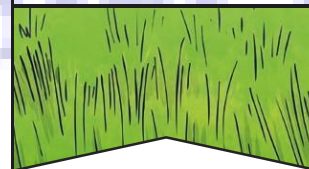
forces	Pushes or pulls.
friction	A force that acts between two surfaces or objects that are moving, or trying to move, across each other.
surface	The top layer of something.

Key Knowledge

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.



Grass



Gravel

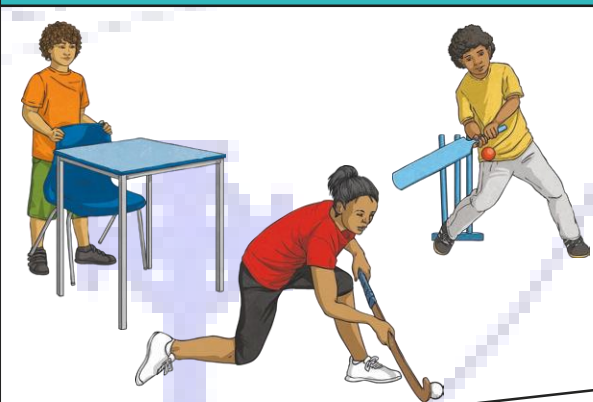


Sand

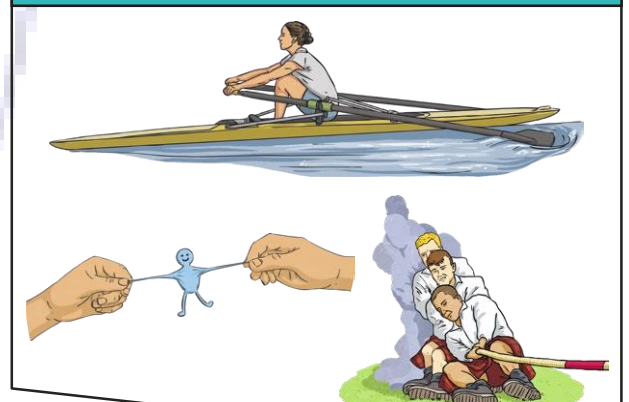


Road

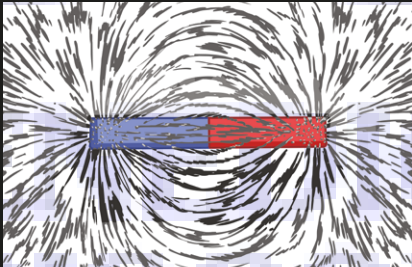

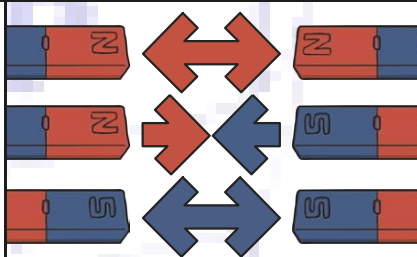
Pushes

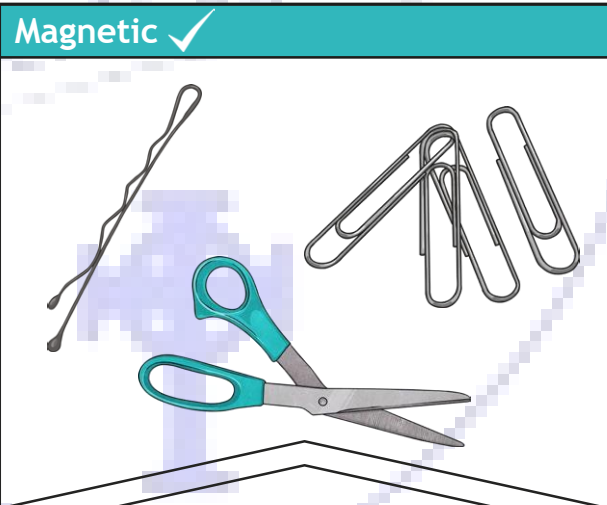
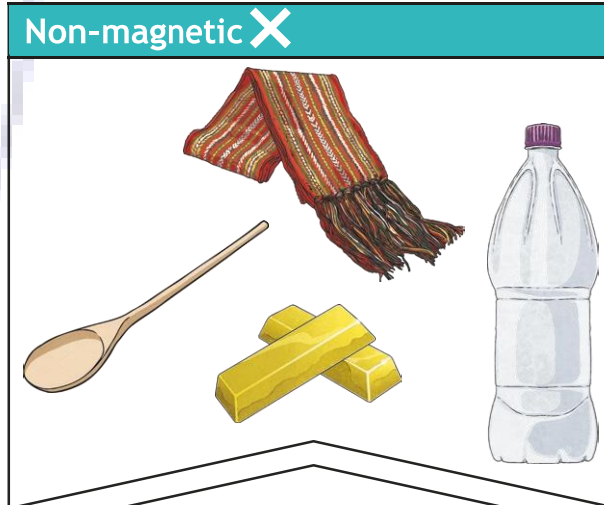


Pulls

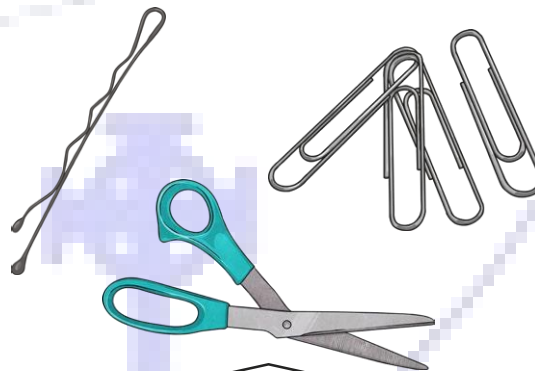


Forces will change the motion of an object. They will either make it start to move, speed up, slow it down or even make it stop.

Key Vocabulary		Key Knowledge		
magnet	An object which produces a magnetic force that pulls certain objects towards it.		Like poles repel . Opposite poles attract .	
magnetic	Objects which are attracted to a magnet are magnetic . Objects containing iron, nickel or cobalt metals are magnetic .			
magnetic field	The area around a magnet where there is a magnetic force which will pull magnetic objects towards the magnet .	<p>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.</p> 	The needle in a compass is a magnet . A compass always points north-south on Earth.	
poles	North and south poles are found at different ends of a magnet .			
repel	Repulsion is a force that pushes objects away. For example, when a north pole is placed near the north pole of another magnet , the two poles repel (push away from each other).			
attract	Attraction is a force that pulls objects together. For example, when a north pole is placed near the south pole of another magnet , the two poles attract (pull together).			

Magnetic ✓	Non-magnetic ✗
	
These objects contain iron, nickel or cobalt. Not all metals are magnetic .	These objects do not contain iron, nickel or cobalt.

Magnetic ✓



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Non-magnetic ✗



These objects do not contain iron, nickel or cobalt.