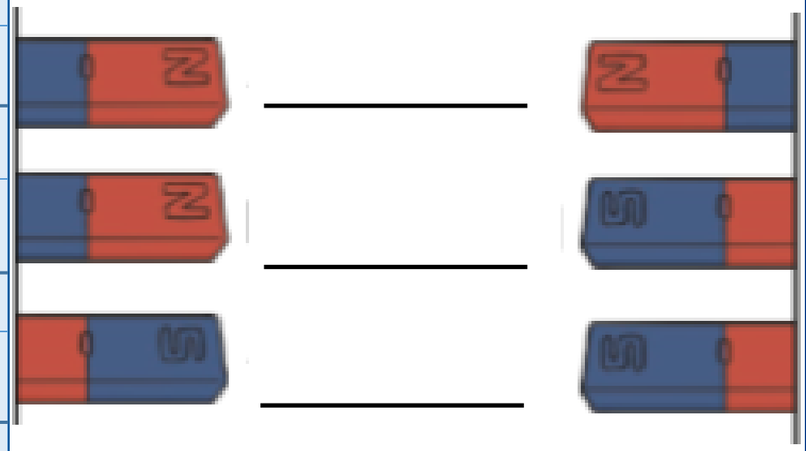
Physics–Forces and Magnets

Subject Specific Vocabulary

Forces	
Friction	
Surface	
Magnet	
Magnetic	
Magnetic field	
Poles	
Repel	
Attract	

Associated Diagram

Label the space between each or these magnets to show if they would attract or repel each other.



Which force is being shown within these pictures?

Sticky Knowledge

Name a metal that is magnetic.

Which surface would cause more friction and why?

a) A smooth wooden floor

b) A bumpy gravel road.

Give an example of a time when each of these forces are used:

Push:

Pull:

Friction:

Give an example of when a force needs contact:

Give an example of when a force doesn't need contact:

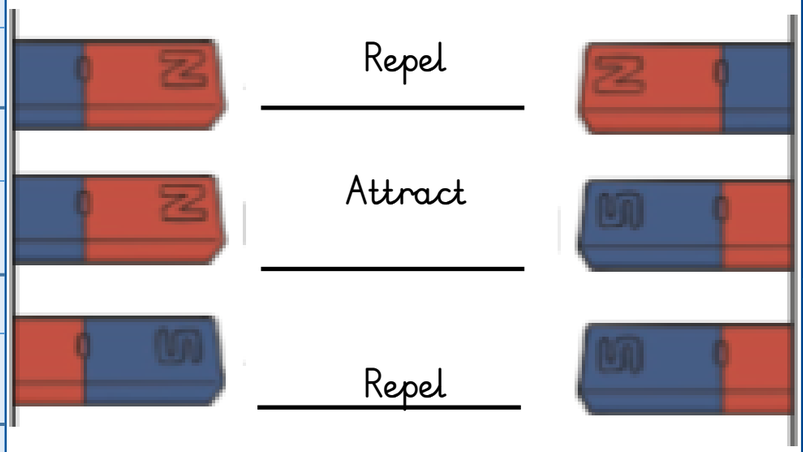
Physics–forces and magnets

Subject Specific Vocabulary

Forces	Causes physical action or movement
Friction	Force caused by two surfaces rubbing together
Surface	The top of something
Magnet	Pulls something magnetic towards it
Magnetic	Is attracted to a magnet
Magnetic field	Caused by a magnet invisible force that can attract (or repel) certain materials
Poles	The ends of a magnet. North and South
Repel	Pushing away (e.g. same poles)
Attract	Pulling closer (e.g. opposite poles)

Associated Diagram

Label the space between each or these magnets to show if they would attract or repel each other.



Which force is being shown within these pictures?

pull

Sticky Knowledge

Name a metal that is magnetic.

E.G. Iron, nickel and cobalt.

Which surface would cause more friction and why? A smooth wooden floor or a bumpy gravel road.

The gravel road would cause more friction because it is a bumpy surface.

Give an example of a time when each of these forces are used:

Push –

Pull –

Friction –

Give an example of when a force needs contact.

Opening a door

Give an example of when a force doesn't need contact.

Magnetism / gravity