

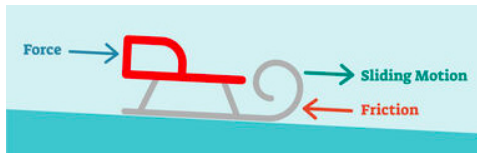
What are forces and magnets?

Key words:



Friction

Friction is a force between two surfaces that are sliding, or trying to slide, across each other. For example, when you push a book along the floor, friction makes this difficult.



Air resistance

Air resistance is a type of friction between air and another material. When an aeroplane moves through the air, the air particles make it hard for the aeroplane to move through the air.



Water resistance

Water resistance is a type of friction between water and another material. Similar principle to air resistance, but as water is thicker, it slows the object down quicker.

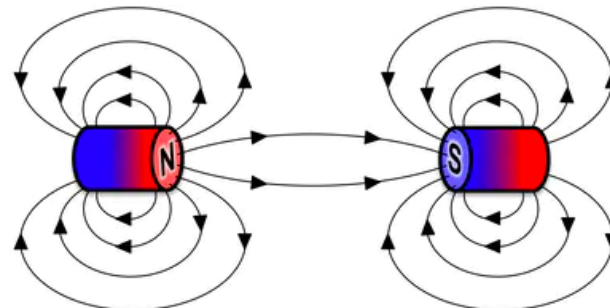
Types of magnet

There are a variety of man-made magnets.

bar magnet	
ring magnet	
button magnet	
horseshoe magnet	

Magnetic every day items

paper clips	scissors	nuts & bolts	Key	spoon
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Vocabulary

magnet	A piece of iron or other material which has its component atoms so ordered that the material exhibits properties of magnetism.
magnetism	A physical phenomenon produced by the motion of electric charge, which results in attractive and repulsive forces between objects.
attract	To draw to or towards another object.
repel	To force back or away from another object.
force	A push or pull action upon an object resulting in the interaction with another object.
north/south pole	Each of the two points of a magnet to and from which the lines of magnetic forces are directed
Iron	A strong, hard magnetic silvery-grey metal used as a material for construction, especially in the form of steel.
contact force	When two materials push or pull against each other through physical contact.
non-contact force	When two materials push or pull against each other without physical contact (usually magnetic)

In order for an object to be magnetic it needs to be a metal. Although, not all metals can be magnetic.



Push

examples:

- push a trolley
- push the ball
- push the pram
- push your feet off the ground

- Games/sports involving push forces:
- Football
- Cricket
- Baseball

Pull

examples:

- pull the rope
- pull the string back in archery
- pull the sledge
- pull the door

- Games/sports involving pull forces:
- Archery
- Rowing
- Tug-of-war

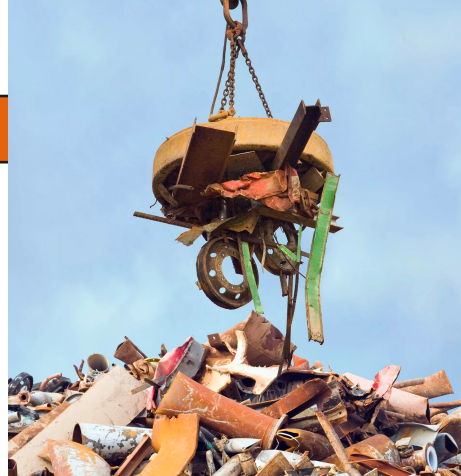
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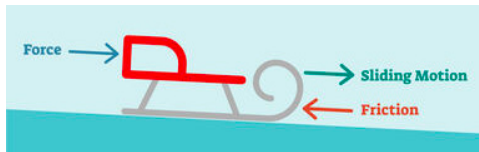


strength

weight



Friction



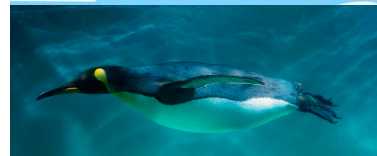
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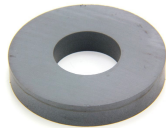
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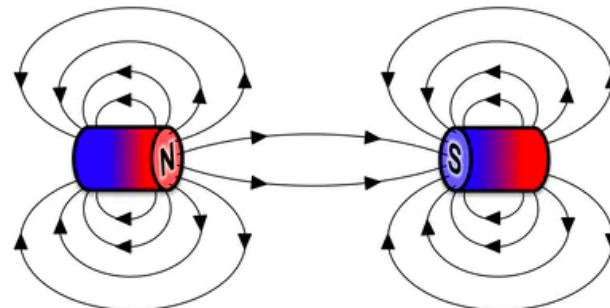


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