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force	A force is a push or a pull. Forces can make things start moving, stop moving or change their shape.
push	When you push something you are using force to move it away from you.
pull	When you pull something you are using force to move it towards you.
twist	Push and pull something at the same time.
contact force	A force produced by touch.
non-contact force	A force that is produced at a distance.
magnetic force	A magnet attracts some types of metal and other magnets towards it. Magnetism is a non - contact force .
strength	How powerful the force is.
magnetic material	A material that is attracted to a magnet. It can never be repelled by a magnet.

bar magnet
button magnet
ring magnet
horseshoe
magnet

A force is a push or a pull.





When an object moves on a surface, the texture of the surface and the object affect how it moves. It may help the object to move better or it may hinder its movement e.g. ice skater compared to walking on ice in normal shoes.



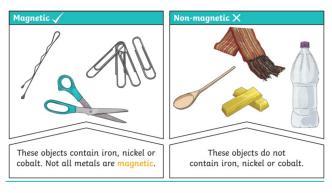
For some forces to act, there must be contact e.g. a hand opening a door, the wind pushing the trees.





Some forces can act at a distance e.g. magnetism. The magnet does not need to touch the object that it attracts.

A magnet attracts magnetic material. **Iron** and **nickel** and other materials containing these, e.g. stainless steel, are magnetic.



The strongest parts of a magnet are the poles. Magnets have two poles – a north pole and a south pole.



If two like poles, e.g. two north poles, are brought together they will push away from each other – repel.



If two unlike poles, e.g. a north and south, are brought together they will pull together – attract.

