

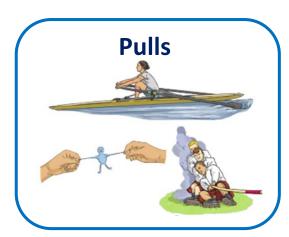
Year 3 – Autumn 2

Science: Forces and Magnets



Definition
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A push or a pull.
A force where objects need to
touch each other to push or pull.
A force where objects do not have
to touch each other to push or pull.
A magnetic force is a non-contact
force.
A force between magnets.
A material that produces a
magnetic field.
To pull together.
To push away.
North and South poles are found at
different ends of a magnet.





Some surfaces create more **friction** than others which means that objects move across them slower.

The rougher the surface, the more friction there is.

sandpaper





The smoother the surface, the less friction there is.

paper

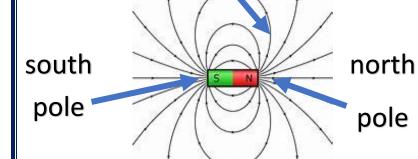






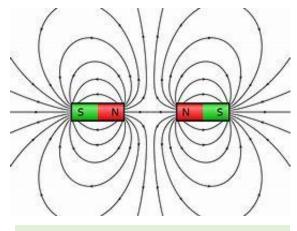
Magnets produce an area of magnetic force called a magnetic field.

magnetic field



Repel

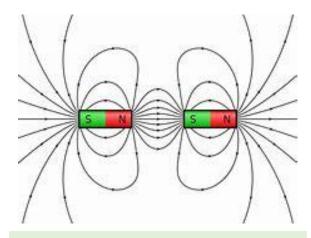
When magnets repel, they push each other away.



If north poles or south poles face each other, the magnets will repel.

Attract

When magnets attract, they pull together.



If a north pole is next to the south pole, then the magnets will attract.



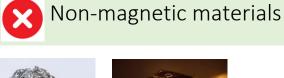
Magnetic materials



Cobalt Iron



Nickel









Gold



Copper





Steel contains different amounts of iron, so it will sometimes be magnetic.