

Glossary

Attract - attraction is a force that pulls objects together

Forces - pushes or pulls

Friction - a force that acts between two surfaces or objects that are moving or sliding across each other

Magnet - an object that produces a magnetic force that pulls certain objects towards it

Magnetic - objects which are attracted to a magnet are magnetic

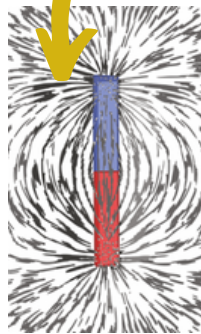
Magnetic field - the area around a magnet where there is a magnetic force which will pull magnetic objects towards the magnet

Non-contact force - forces that don't need contact, such as a magnetic force

Poles - north and south poles are found at different ends of a magnet

Repel - repulsion is a force that pushes objects away

Surface - the top layer of something



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.

Like poles
REPEL
and opposite
poles
ATTRACT

A magnetic
field is
INVISIBLE

Some
materials are
**NON-
MAGNETIC**

Some materials are
MAGNETIC
Magnetic forces can act at
a distance which means the
magnet doesn't have to
touch the object to exert a
force on it.

Non-magnetic X



These objects do not contain
iron, nickel or cobalt.

Friction
It is easier to push
or pull things
along smooth
surfaces than
rough ones.

Year Three Forces and Magnets

ROUGH



The driving **force**
pushes the bicycle,
making it move.



smooth



Autumn 2

Friction pushes on
the bicycle, slowing
it down.

Some forces need
-> **CONTACT** <-
between two objects.
Forces will either make
an object start to move,
speed up, slow it down
or even make
it stop.

Pushes



Pulls



Magnetic ✓



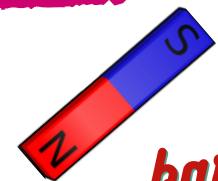
These objects contain iron,
nickel or stainless steel.



**ring
magnet**



**horseshoe
magnet**



**bar
magnet**