

Subject: Year 3  
Concept: Forces and Magnets

Previously, I have learnt... → In Year 3, I am learning... → In the future, I will learn... → My future...

That some things are attracted to magnets

That objects are made from different materials

That some forces need contact between two objects, but magnetic forces can act at a distance

To compare how things move on different surfaces

To observe how magnets attract or repel each other and attract some materials

To compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials

That magnets have two poles and how this affects magnetism.

How to explain that unsupported objects fall towards the Earth because of the force of gravity.

To identify the effects of air resistance, water resistance and friction, that act between moving surfaces

To recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.

- Scientist
- Doctor
- Dentist
- Archaeologist
- Engineer
- Chemist
- Teacher
- Biochemist
- Astronaut
- Anthropologist
- Environmentalist
- Naturalist
- Wildlife documentary presenter



materials  
wood  
plastic  
fabric  
metal  
glass  
magnet  
attracted



force  
surface  
magnet  
attract  
repel  
poles  
contact  
north pole  
south pole  
magnetic field



newtons  
gravity  
friction  
air resistance  
drag  
thrust  
weight  
mass  
acceleration  
deceleration

Subject: Year 5  
Concept: Forces and Magnets

Previously, I have learnt... → In Year 5, I am learning... → In the future, I will learn... → My future...

That some forces need contact between two objects, but magnetic forces can act at a distance

To compare how things move on different surfaces

To observe how magnets attract or repel each other and attract some materials

To compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials

That magnets have two poles and how this affects magnetism.

How to explain that unsupported objects fall towards the Earth because of the force of gravity.

To identify the effects of air resistance, water resistance and friction, that act between moving surfaces

To recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.

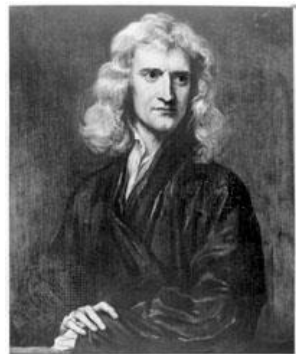
How forces are associated with deforming objects; stretching and squashing, friction and resistance.

That forces are measured in newtons, measurements of stretch or compression as force is changed

About non-contact forces: acting at a distance on Earth and in space, forces between magnets and forces due to static electricity.

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force  
surface  
magnet  
attract  
repel  
poles  
contact  
north pole  
south pole  
magnetic field



newtons  
gravity  
friction  
air resistance  
drag  
thrust  
weight  
mass  
acceleration  
deceleration



friction  
air resistance  
deformation  
force-extension  
friction  
stretching  
squashing  
resistance