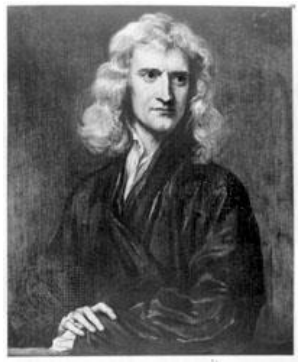
Windmill L.E.A.D Academy
Lead · Empower · Achieve · Drive

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 some forces need contact between two objects, but magnetic forces can act at a distance	How to explain that unsupported objects fall towards the Earth because of the force of gravity.	Scientist
That objects are made from different materials	To compare how things move on different surfaces	To identify the effects of air resistance, water resistance and friction, that act between moving surfaces	Doctor
	To observe how magnets attract or repel each other and attract some materials	To recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.	Dentist
	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		Archaeologist
	That magnets have two poles and how this affects magnetism.		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

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Subject: Year 5
Concept: Forces and Magnets

Previously, I have learnt...

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.

In Year 5, I am learning...

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.

In the future, I will learn...

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.

My future...

Scientist

Doctor

Dentist

Archaeologist

Engineer

Chemist

Teacher

Biochemist

Astronaut

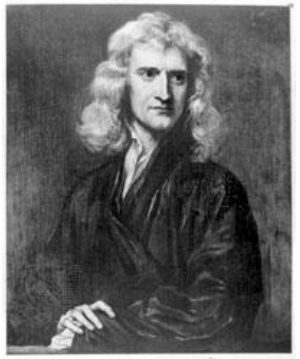
Anthropologist

Environmentalist

Naturalist

Wildlife documentary presenter

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