



What I should already know:

The shape of some materials can be changed when they are stretched, twisted, bent and squashed.

How different toys move.

What a magnet does.

By the end of this unit I will know:

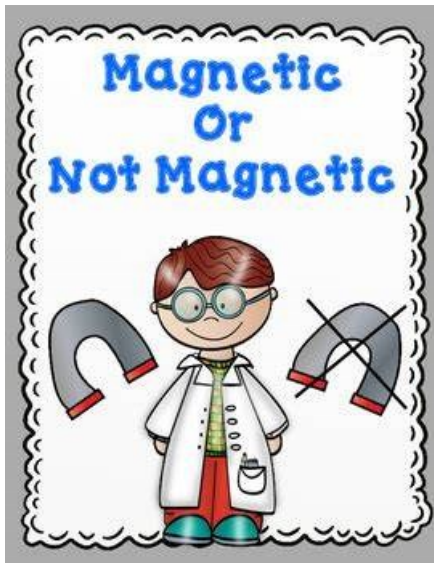
Forces make objects start to move, speed up, slow down or change direction.

Objects will move differently on different surfaces.

Some materials are magnetic and some are non-magnetic.

Some metals, but not all, are magnetic and that all non-metals are non-magnetic.

Magnets have two poles and two magnets will attract or repel depending on which poles are facing.



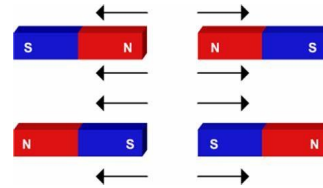
Investigation:

Which materials are magnetic and non-magnetic?

How well can an object slide on different materials?

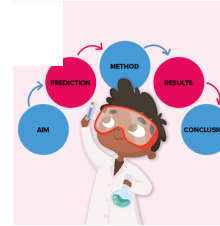
YEAR 3: The Power of Forces

Science: Physics



Working Scientifically

Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions



Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.

Using straightforward scientific evidence to answer questions or to support their findings.

Identifying differences, similarities or changes related to simple scientific ideas and processes.

Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables.

Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.

Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.

Setting up simple practical enquiries, comparative and fair tests.

Vocabulary

Attract	To draw an object towards another using a magnet
Force	A push or pull upon an object, that can cause it to change its shape, direction of movement or shape
Magnet	A metal object that possesses an attractive force to other metals
Magnetic	Capable of being magnetized or attracted by a magnet
Non-magnetic	Not capable of being magnetized or attracted by a magnet
North pole	On a magnet, the north pole is the pole out of which magnetic lines of force point to
Pull	A force that makes an object move towards you or away from its previous position
Push	A force that makes an object move away from you or away from its previous position
Repel	The force to move away or apart. When two of the same magnetic poles face, they repel (push away) from each other
Strength	The measure of intensity of a magnetic field
South pole	On a magnet, the south pole is the pole into which the magnetic lines of force point
Twist	Turn something to make a spiral shape

