

The key Scientific knowledge that I will know by the end of this unit will be:

- A [force is a push or a pull on an object](#). A force needs two objects where one pushes or pulls the other to make it move. We use forces all the time [to move things and to make ourselves move](#).
- To measure forces, we can use a [force meter/Newton meter](#). This piece of equipment reads the level of force applied to the object as it stretches from the spring on the meter.
- To understand that moving objects across [different surface types can affect the amount of force applied](#) to it.
- Gravity is a force that doesn't need to be connected to two objects to make them move. [Gravity is a force that pulls everything to the centre of the Earth](#).
- [Magnetism](#) is another force that doesn't need to be connected to two objects.
- [Magnets are rocks or pieces of metal that have a magnetic field around them](#). This means they can pull objects towards them or push objects away from them without having to make contact with the other object.
- Each magnet has [two poles](#): a north pole and a south pole. Each pole either [attracts](#) objects, [repels](#) objects or [nothing at all if the object isn't magnetic](#).
- To [test](#) if objects are magnetic or not, depending if the object is attracted or repelled by an magnet.

I will show that I can work like a Scientist by:

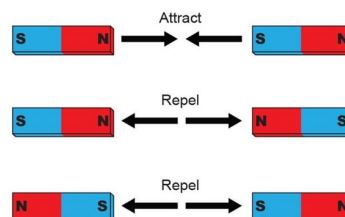
- exploring magnets with a range of materials.
- conducting experiments and testing connected with the various objects.
- discussing possibilities or predictions through the use of scientific vocabulary.
- asking questions connected to our observations.
- drawing simple conclusions on what I have found out through verbal or written responses.

Year 3 Science

Forces and Magnets



What have I learnt before and when:		What I will learn:
Year 1	Year 2	Year 3
Materials	Exploring Everyday Materials	Forces and Magnets



Famous Person link

Issac Newton

How do forces affect our daily life?

How are magnets connected with forces?

Vocabulary	Definition
forces	A push or a pull on an object. A force needs two objects where one pushes or pulls the other to make it move.
gravity	Is a force that pulls everything towards the centre of the Earth.
weight	How heavy something is.
magnetism	Magnets are rocks or pieces of metal that have a magnetic field around them. This means they can pull objects towards them or push objects away from them without having to make contact with the other object.
poles	Each magnet has two poles, a north pole and a south pole. They are called the north and south poles because if a bar magnet is able to rotate, the north pole will always point north and the south pole will always point south.
attract	When an object is pulled towards a magnet.
repel	When an object is pushed away from a magnet.