



Knowledge Organiser

Science: Magnet

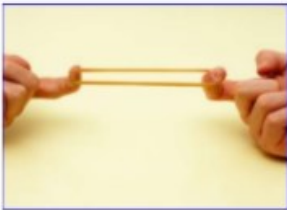
Year 3/4

Theme: Cause and Effect

Summer Term A 2020

Prior Knowledge

Year 2— find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching



Application of Knowledge

- notice that some forces need contact between two objects, but magnetic forces can act at a distance (3-Forces)
 - observe how magnets attract or repel each other and attract some materials and not others (3-Forces)
 - 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 (3-Forces)
 - describe magnets as having two poles (3-Forces)
- predict whether two magnets will attract or repel each other, depending on which poles are facing



What I will know by the end of this topic

What objects are attracted to magnets?

What objects are repelled by magnets?

Can you describe the features of a magnet?

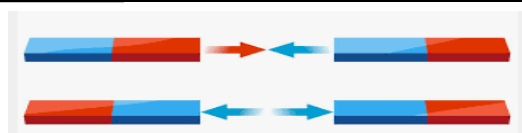
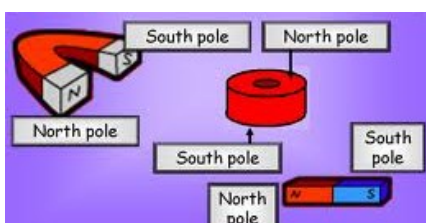
Which way do magnets have to face each other to attract each other?

Which way do magnets have to face each other to repel each other?



Vocabulary

Magnet	A magnet is a material or object that produces a magnetic field
Forces	a force is any interaction that, when unopposed, will change the motion of an object
Attract	Pulled towards
Repel	Pushed away
Magnetic	A material made of certain metals that is attracted to a magnet.
Non-magnetic	A material that is not attracted to a magnet.
Poles	Poles of a magnet. The ends of a magnet are called its poles . One end is called the north pole , the other is called the south pole . If you line up two magnets so that the south pole of one faces the north pole of the other, the magnets will pull towards each other.





Prior Knowledge

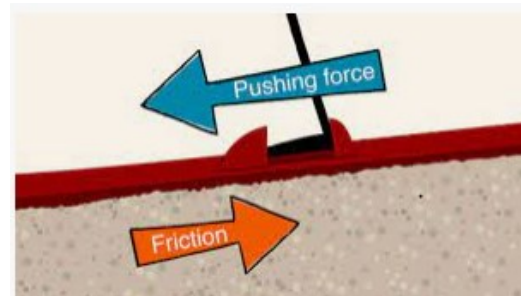
Year 2— find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching



Application of Knowledge

compare how things move on different surfaces

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



What I will know by the end of this topic

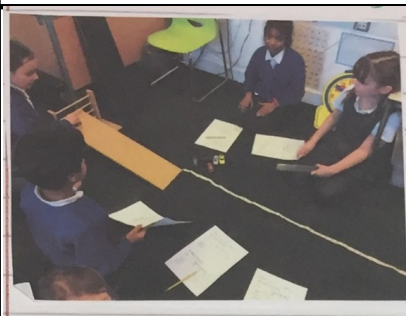
Can you name 3 objects that you can push?

Can you name 3 objects that you can pull?

What force slows a moving object as it is moving along a surface?

How can you move an object without making contact?

How can you move an object by making contact?



Vocabulary

Push	Using force to move something. When you push something, you are moving it away from you.
Pull	Using force to move something. When you pull something, you are moving it towards you.
Contact	The state of physical touching
Non-contact	The state of not touching something
Forces	An interaction that will change to the motion of an object
Friction	Friction is the resistance to motion of one object moving relative to another. It is a stopping force.
Magnets	A magnet is a material or object that produces a magnetic field
Magnetic	Things that are magnetic are attracted to some metals.

