



Prior learning to reactivate

This is the first time this subject is taught within the Primary Curriculum.

Fridge magnets 'stick' things to the fridge

Key learning

How things move on different surfaces and be able to compare these

Know that some forces need contact between two objects.

Magnetic forces can act at a distance.

Magnetics attract or repel each other; same poles repel, different poles attract.

Magnets attract some materials and not others and be able to group these.

The earth is a very big magnet. The magnetic fields surrounding the earth are the south pole and north pole.

Key vocabulary

Force	A push or pull on an object. A force can cause something to speed up, slow down, change shape or change direction.
Friction	The action when a surface or object rubs against another
Attract	When two objects or two ends of a magnet pull together
Repel	When two objects or two ends of a magnet push away from each other
Magnet/ magnetism	Objects/force that can push or pull (attract or repel) certain metals with an invisible force [called magnetism]
Magnetic	Objects/materials that are attracted by magnets.
Magnetic pole	The ends of the magnet. One end is the north, the other, south.
Magnetic field	An invisible area of magnetism around a magnet

SCIENTIFIC SKILLS

By the end of the year, children should be able to...

- Ask their own questions relating to the topic
- Make predictions about the outcomes of investigations
- Set up simple practical investigations
- Be able to identify simple ways in which a fair test can be created
- Make simple observations, including through the use of a range of recording/measurement equipment
- Gather and record data
- Present data in a variety of ways, including diagrams, charts, tables, and graphs
- Draw simple conclusions on results and link back to the theory discussed
- Suggest improvements for further investigations

Opportunities for scientific enquiry within the unit:

- Investigate how well magnets move on different surfaces.
- Explore paper clip—make it move and can it move if different materials between it and the magnet.
- Which materials are magnetic?
- How are magnets used in machines?
- Which magnets are the strongest?

