



Linked learning theme: Around the World

Autumn term, Year 3

Science – Magnets

Prior Knowledge

In Y1 and 2 children learnt about the properties of materials but not forces. In EYFS the children interacted with magnets.

Core knowledge

- Magnets have two poles – north and south.
- Magnets attract when opposite poles are facing each other.
- Magnets repel when the same poles are facing each other.
- Magnetic forces can act at a distance.
- Objects that are attracted to a magnet are magnetic. Magnetic materials are metal.

Key skills

- Ask relevant questions about magnets and how they work.
- Observe what happens when magnets are near one another and draw conclusions based on attracting and repelling.
- To observe whether materials are magnetic. Record these findings and draw conclusions and links from what has been found.
- Set up a simple experiment to test the strength of a magnet. Make careful observations, record findings, and draw conclusions.

Vocabulary

Magnet	North pole	Attract
Magnetic	South pole	
Magnetic field	Repel	

Learning Outcomes

- I can compare how things move on different surfaces.
- I notice that some forces need contact between two objects, but magnetic forces can act at a distance.
- I can observe how magnets attract or repel each other and attract some materials and not others.
- I can compare and group together a variety of everyday materials on the basis of whether they are
- I can ask relevant questions and use different types of scientific enquiries to answer them.
- I can set up simple practical enquiries, comparative and fair tests.
- I can make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment.
- I can gather, record, classify and present data in a variety of ways to help in answering questions.
- I can record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.