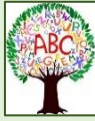


Science - Year 3 - Physics

Forces & Magnets



Key Vocabulary



forces

friction

surface

magnet

magnetic

magnetic field

poles

repel

attract

Science GOLDEN WORDS:

prediction

measurements

conclusion

explain

classify

Key Facts



- Different surfaces create different amounts of friction.
- The amount of friction created by an object moving depends on the roughness of the surface and the object, and the force between them.
- Forces will change the motion of an object.
- A magnetic field is invisible.
- Like poles repel. Opposite poles attract.
- The needle in a compass is a magnet. A compass always points north south on Earth.
- Objects that contain iron, nickel or cobalt are magnetic. Not all metals are magnetic.

Forces

Pulls



Pushes



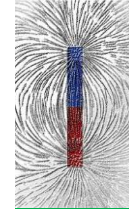
Magnets



Opposite poles attract



Like poles repel



This is what happens when iron filings are placed on top of a piece of paper with a magnet underneath. It shows the magnetic field.

Friction



The driving force pushes the bicycle, making it move.

Friction pushes on the bicycle, slowing it down.

Forces

Forces will make an object start to move, speed up, slow down or even make it stop.

Our 'forces & magnets' knowledge journey:

**This is the first time children will meet this topics.*

Working Scientifically:

- Ask relevant questions.
- Set up simple, practical enquiries and comparative and fair tests.
- Gather, record, classify and present data in a variety of ways to help in answering questions.
- Use straightforward, scientific evidence to answer questions or to support their findings.