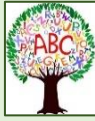


# Science - Year 3 - Physics

## Forces & Magnets



### Key Vocabulary



forces

friction

surface

magnet

magnetic

magnetic field

poles

repel

attract

### Science GOLDEN WORDS:

prediction

measurements

conclusion

explain

classify

### Key Facts



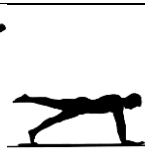
- Different surfaces create different amounts of friction.
- The amount of friction created by an object moving depends on the roughness of the surface and the object, and the force between them.
- Forces will change the motion of an object.
- A magnetic field is invisible.
- Like poles repel. Opposite 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



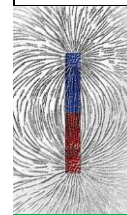
#### Magnets



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.