

# Forces

# Year 3

The Iron Man has fallen in to a pit. We need to use our scientific knowledge and DT skills to think of a way to rescue him.

## Key Facts

Friction is the force that stops or slows a moving object.

Magnetism is the force that occurs when a magnet pulls a metal, or another magnet, towards itself.

Magnets have two poles (north and south).

Steel is a mixture of metals. It is magnetic because it contains iron.

The Earth is a giant magnet.

## Recommended Websites

<https://www.bbc.co.uk/bitesize/topics/znmmn39>

BBC Bitesize shows you lots of videos about different forces.

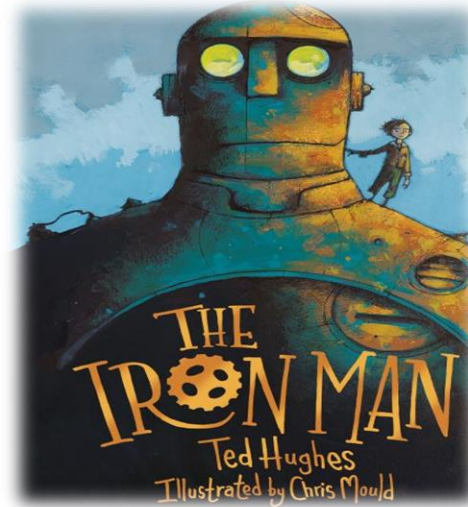
<https://www.youtube.com/watch?v=Eu-5QRYjPQk>

Watch 'Bill Nye the Science Guy' explain forces.

## Prior Learning

You will be using your knowledge of levers, linkages and pulleys to help you design a magnetic machine.

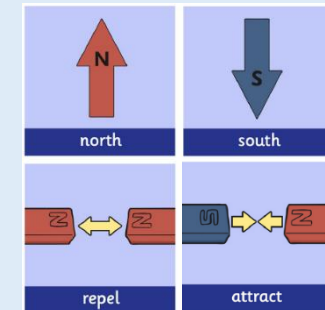
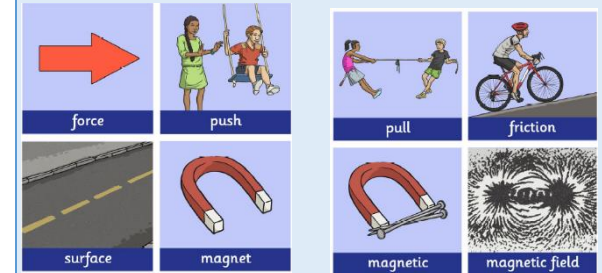
You have already grouped materials in year 2 based on different properties. Now, we are going to group them based on whether they are magnetic or non-magnetic.



Taller than a house, the Iron Man stood at the top of the cliff, on the very brink, in the darkness...

Get ready to be immersed in Ted Hughes' beloved tale.

## Key Vocabulary



## Things to do at home

Can you...

- Find some magnetic materials in your home?
- Explore which of your shoes have the best friction?
- Create a game that includes pushes and pulls?