

# Year 3: let's learn about... Mighty Metals Summer 2



## Forces

A force is a push or pull. Forces cannot be seen but it is possible to see what forces do. When a force is used on an object it can change:  
how fast the object moves;  
the direction of the movement;  
the shape of the object.

Forces are measured in Newtons (N) using something called a 'Force Metre'.



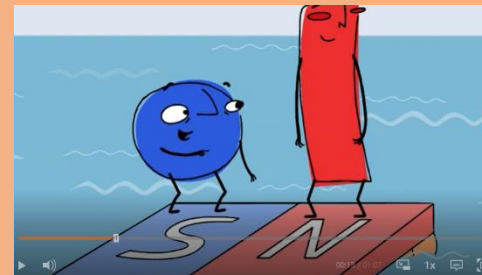
**Pull**



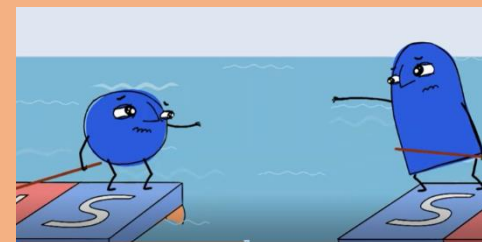
**Push**

## Magnets

A magnet is a material that can **pull** certain types of metal towards it. The 2 ends of a magnet are where the forces are strongest. These are called the North pole and the South pole.

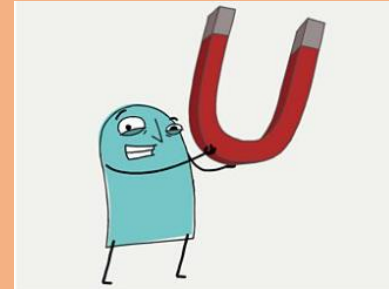


If you put **two magnets together with different poles** pointing towards one another, the magnets will **pull towards** each other. We say they **attract each other**.



If you try to put **two magnets together with the same poles** pointing towards one another, the magnets will **push away** from each other. We say they **repel each other**.

Key Scientific Vocabulary	
<b>friction</b>	A force that is created when 2 surfaces rub against each other.
<b>force</b>	A force is a push or a pull. You cannot see it, but you can see what it does.
<b>magnetic</b>	A magnet is a rock or a piece of metal that can pull certain types of metal towards it.
<b>metal</b>	A solid material found in rocks
<b>Attract - pull</b>	A force that moves something towards a person, animal or object
<b>Repel - push</b>	A force that moves something away from a person, animal or object

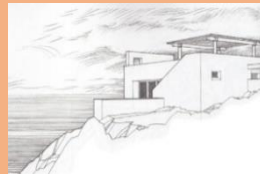


Some magnets are stronger than others. **Strong magnets will create bigger pushing or pulling forces** than weak ones.

A powerful magnet can be big or small.

### Art inspired by Frank Ching

Key Art Vocabulary	
<b>Wash</b>	Using a brush to spread water or ink on a drawing
<b>Line drawing</b>	An image with strong, straight lines
<b>Sharp</b>	Having a thin edge, or a fine point
<b>blend</b>	A method used to mix 2 mediums together to blur the lines
<b>blurred</b>	An area you can't see clearly



**Ted Hughes  
(1930 – 1998)**



Ted Hughes was an English poet and writer of children's stories. He started writing by the age of 15 and wanted to become a poet by the age of 16. His story the Iron Man was written as a bedtime story for his children. He wrote a follow-up book called 'The Iron Woman' about the importance of looking after the environment and not polluting our seas, oceans and rivers.

\*pollution: anything that makes the land, air or sea dirty and unhealthy.

