

# Forces

Useful links:

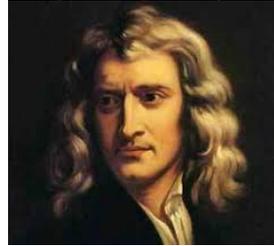
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**Air resistance**



**Gravity**

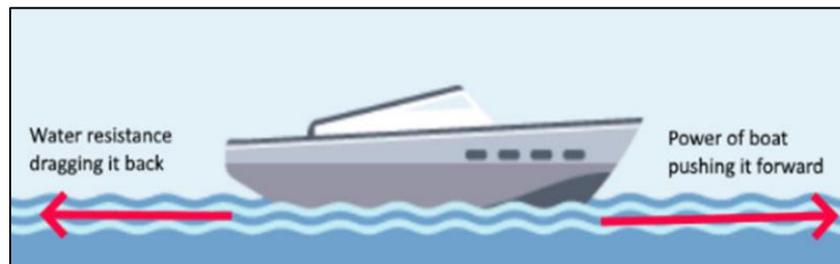
**Sir Isaac Newton**  
(1642-1726)



He was an English scientist and mathematician. He 'discovered' the concept of gravity when sitting under a tree and an apple fell to the ground near him.

## Key vocabulary

<b>Newton (N)</b>	The unit for measuring force.
<b>Gravity</b>	A force which pulls things down towards the centre of the Earth.
<b>Water resistance</b>	A force that slows down objects moving through water.
<b>Air resistance</b>	The force that slows down objects that move through air.
<b>Mechanisms</b>	A device that allows a small force to be increased to a larger force.



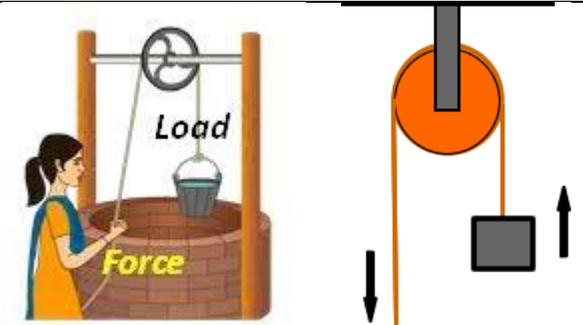
## Simple machines

These are used to make tasks easier. This means you need to use less force.



Force Pivot

A **lever** tilts on a pivot which is nearer to the end of the pivot with a heavy load.



**Pulleys** have a rope or cable which goes over a wheel. This is pulled to lift, lower or move heavy objects.



**Gears** are toothed wheels which lock together and turn each other to form simple machines.