

Forces

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Air resistance



Gravity

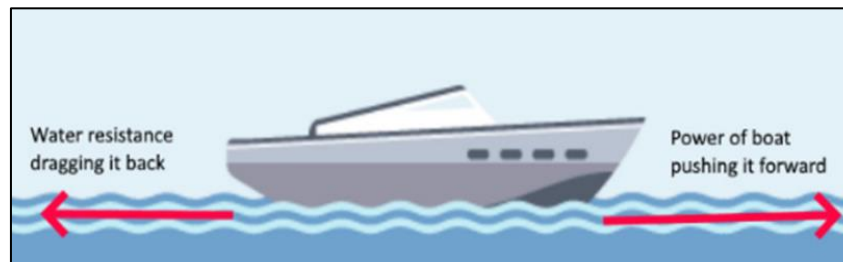
Sir Isaac Newton
(1642-1726)



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

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



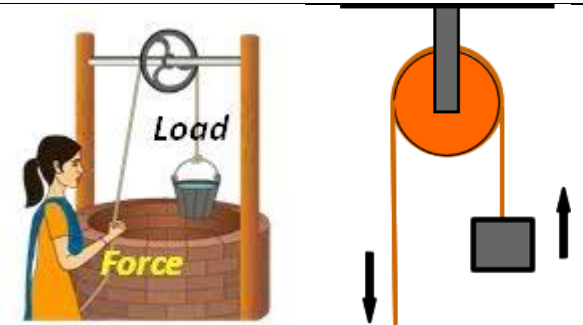
Simple machines

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.