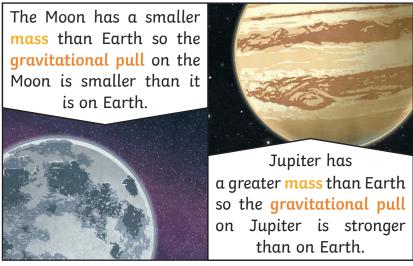
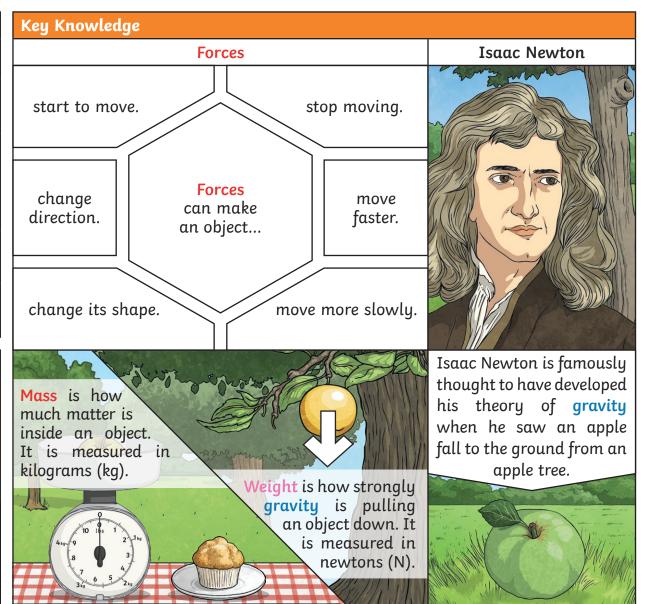
Forces Year 5

Key Vocabulary	
forces	Pushes or pulls.
gravity	A pulling <b>force</b> exerted by the Earth (or anything else which has mass).
Earth's gravitational pull	The pull that Earth exerts on an object, pulling it towards Earth's centre. It is the Earth's gravitational pull which keeps us on the ground.
weight	The measure of the force of gravity on an object.
mass	A measure of how much matter (or 'stuff') is inside an object.



To look at all the planning resources linked to the Forces unit, click here.





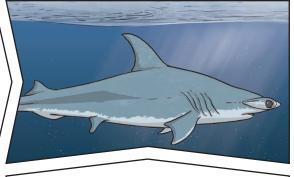


Forces Year 5

Key Vocabulary	
friction	A <b>force</b> that acts between two surfaces or objects that are moving, or trying to move, across each other.
air resistance	A type of <b>friction</b> caused by air pushing against any moving object.
water resistance	A type of <b>friction</b> caused by water pushing against any moving object.
buoyancy	An upward force that a liquid applies to objects.
streamlined	When an object is shaped to minimise the effects of air or water resistance.
mechanism	Parts which work together in a machine. Examples of mechanisms are pulleys, gears and levers.

It has a pointed nose to cut through the water, and a smooth, low, curved back to allow the water to flow over and around it.

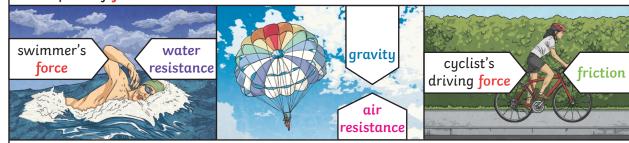
## This shark is streamlined.



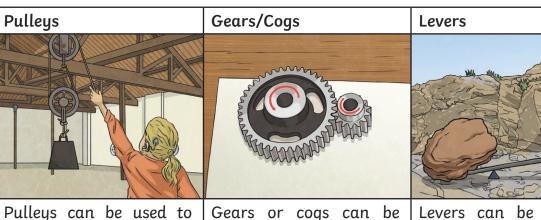
It does not create much water resistance so it can move through the water quickly.

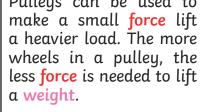
## Key Knowledge

Examples of forces in action:



Water resistance and air resistance are forms of friction. Friction is sometimes helpful and sometimes unhelpful. For example, air resistance is helpful as it stops the skydiver hitting the ground at high speed. Friction on a bike chain can make the bike harder to pedal so it is unhelpful.





used to change the speed, force or direction of a motion. When two gears are connected, they always turn in the opposite direction to each other.

Levers can be used to make a small force lift a heavier load. A lever always rests on a pivot.



