Key vocabulary	
force	A force is a push or a pull. Forces
	make objects start moving, stop
	moving, speed up, slow down or
	change direction.
gravity	A force which pulls things down
	towards the centre of the Earth.
forcemeter	Piece of equipment used to
	measure the size of a force.
Newton (N)	The unit for measuring force.
air	The force that slows down
resistance	objects that move through air.
water	A force that slows down objects
resistance	moving through water.
friction	When one surface moves against
	another, the rubbing force that
	tries to stop them is called
	friction. It gives us grip.
mechanisms	A device that allows a small force
	to be increased to a larger force.
simple	Levers, pulleys and gears are all
machines	types of simple machines.

## Forces – Year 5

## Real-life examples of forces in action



A skydiver falls fast until they open their parachute.



shape.



## **Simple machines**

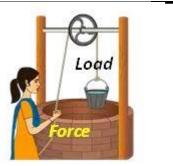
These are used to make tasks easier. This means you need to use less force.

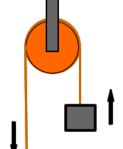


Force

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.