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.

Real-life examples of forces in action



Forces – Year 5 **Significant scientists** Traditional Galileo Galilei He was an Italian (1564-1642) scientist. shape and size are at the same rate. Sir Isaac Newton He was an English scientist and (1642 - 1726)



He discovered that if two objects of similar dropped, they will fall mathematician. He 'discovered' the concept of gravity when sitting under a tree and an apple fell to the ground near him.

Contemporary **Emma England - Aeronautical engineer** Emma works as part of a team designing the wings of aircrafts.





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