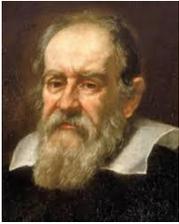


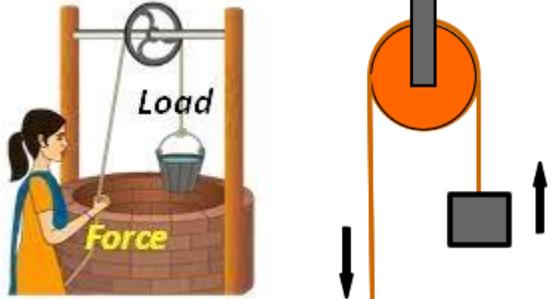
Key vocabulary	
acceleration	Increase in speed.
air resistance	The force that slows down objects that move through air.
balanced	The forces are equal.
deceleration	Decrease in speed.
drag	A resistance force.
force	A force is a push or a pull. Forces make objects start moving, stop moving, speed up, slow down or change direction.
friction	When one surface moves against another, the rubbing force that tries to stop them is called friction. It gives us grip
gear	Machinery used to transmit or receive force.
gravity	A force which pulls things down towards the centre of the Earth.
lever	A plank that is free to rotate on a pivot.
lift	The force that directly opposes the weight of a plane and holds the plane in the air.
mass	The measure of the amount of matter in an object.
mechanisms	A device that allows a small force to be increased to a larger force.
Newton (N)	The unit for measuring force.
opposite	Completely different.
pulley	A wheel which passes a cord and changes the direction of a force to raise heavy weights.
thrust	A push force.
unbalanced	Weights are not equal.
upthrust	A force that pushes an object up.
water resistance	A force that slows down objects moving through water.
weight	Mass of an object multiplied by gravity.

Forces – Year 5

Significant scientists	
Traditional	
<p>Galileo Galilei (1564-1642)</p> 	<p>He was an Italian scientist. He discovered that if two objects of similar shape and size are dropped, they will fall at the same rate.</p>
<p>Sir Isaac Newton (1642-1726)</p> 	<p>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.</p>
Contemporary	
<p>Emma England - Aeronautical engineer Emma works as part of a team designing the wings of aircrafts.</p>	



Seeds fall to the ground because of gravity.

Simple machines
<p>These are used to make tasks easier. This means you need to use less force.</p>
 <p>A lever tilts on a pivot which is nearer to the end of the pivot with a heavy load.</p>
 <p>Pulleys have a rope or cable which goes over a wheel. This is pulled to lift, lower or move heavy objects.</p>
 <p>Gears are toothed wheels which lock together and turn each other to form simple machines.</p>