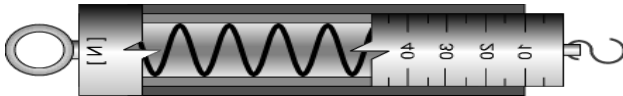
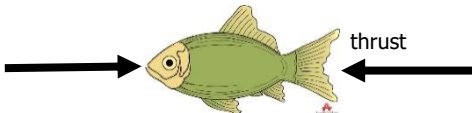


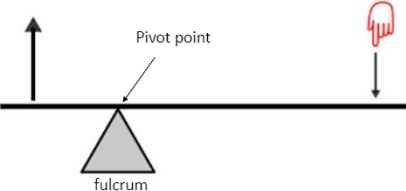


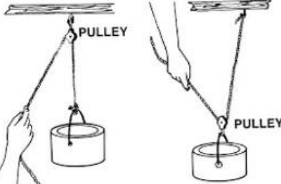
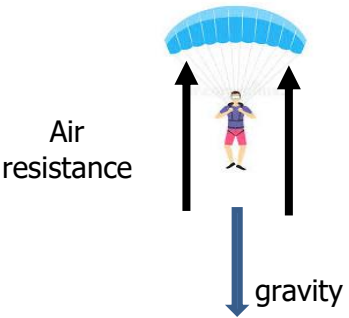
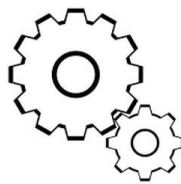


**Forces – Knowledge Organiser Year 5 Summer 1**

Vocabulary				Water resistance
<b>gravity</b>	The force attracting two objects towards each other. It keeps the Moon and planets in orbit.	 <p style="text-align: center;"><b>Force meter</b></p>		 <p style="text-align: center;">Water resistance</p>
<b>newton (N)</b>	Unit of measurement of forces.			
<b>Force meter (newton meter)</b>	An instrument with a spring for measuring forces.			
<b>mass</b>	A measure of how much of something there is. Measured in g and kg.			
<b>weight</b>	The force experienced when gravity pulls an object downwards.	<p style="text-align: center;"><b>Friction</b></p> 	<p style="text-align: center;"><b>Friction</b></p> 	<p style="text-align: center;"><b>Lever</b></p> 
<b>friction</b>	The force between two surfaces that causes moving objects to slow down. Creates heat.	 <p style="text-align: center;"><b>Useful</b></p>	 <p style="text-align: center;"><b>Nuisance</b></p>	
<b>lubrication</b>	The addition of a fluid between moving surfaces to reduce friction.			<p style="text-align: center;"><b>Pulley</b></p> 
<b>air resistance</b>	A type of friction caused by air pushing against a moving object.			
<b>water resistance</b>	A type of friction caused by water pushing against a moving object.			
<b>streamlined</b>	Being smooth, narrow or pointed in shape to reduce air or water resistance.			
<b>upthrust</b>	Upwards force in a fluid. In water, this helps to keep swimmers and boats afloat.			
<b>load</b>	An object with mass that is lifted (by a machine).			
<b>machine</b>	Device that makes work easier (e.g., by reducing the effort needed to lift a load).	<p style="text-align: center;"><b>Air resistance</b></p> 		<p style="text-align: center;"><b>Gears</b></p> 
<b>lever</b>	Simple machine made of a long, rigid arm or bar that <b>pivots</b> around a <b>fulcrum</b> to lift a load.			
<b>pulley</b>	Simple machine made of a grooved wheel on a fixed <b>axle</b> , which guides a rope or cable to lift a load.			
<b>gears</b>	Simple machines made of toothed wheels slotting together. When one turns so does another. If the gears are different sizes, they can increase the power of a turning force.			