## Year 5 Forces

Draw a line to match the word to its definition.		Name <b>three</b> things that forces can do to an object.	What unit of measure is mass measured in?		
forces	a measure of how much matter is inside an object	1	What unit of measure is weight measured		
gravity	pushes or pulls a pulling force	2	in?		
weight	exerted by the Earth (or anything else that has mass)	 3.			
mass	the measure of the force of gravity on an object	·			
Write the name of the	e force in action next to	each arrow.			
svinner's force					

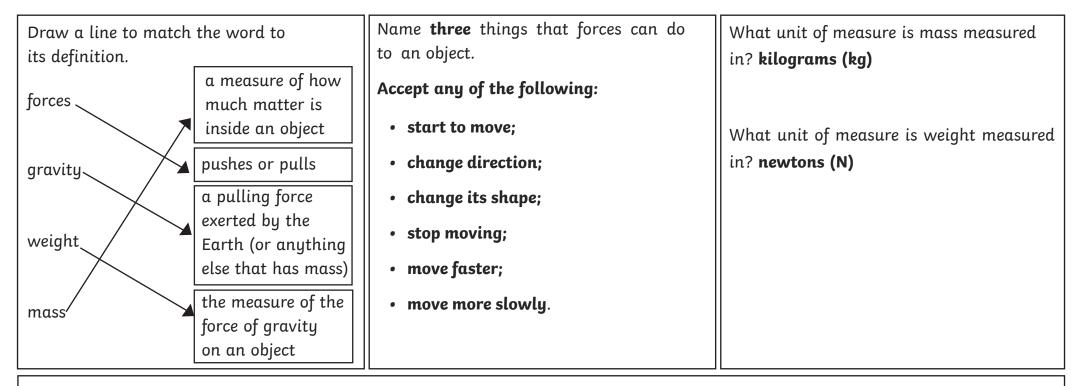
## Year 5 Forces

Draw a line to match each word to its definition.			What is the name of the scientist who developed	
friction	a type of friction caused by air pushing against any moving object		a theory of gravity when he saw an apple fall to the ground?	
air resistance	a force that acts between two surfaces or objects that are moving (or trying to move) across each other			
water resistance	an upward force that a liquid applies to objects			
buoyancy	a type of friction caused by water pushing against any moving object			
Write <b>true</b> or <b>false</b> next to each sentence. Friction always acts in the opposite direction to the moving object Friction always speeds up a moving object Smooth surfaces create more friction than rough surfaces		Give an example of when friction is	helpful.	Give an example of when friction is unhelpful.

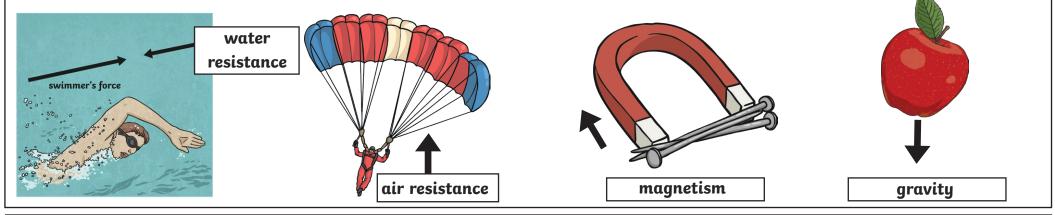
### Year 5 Forces

Circle the object that would fall t	he fastest in water.	Write the name of the mechanism next to each picture.	
A B Explain your answer.			
Fill in the gaps in the sentences.	Select the correct word from each bracket to co the sentences.	omplete	Write <b>true</b> or <b>false</b> next to each sentence.
The Earth's gravitational pull is the pull that Earth exerts on an , pulling it towards Earth's It is the Earth's gravitational pull which keeps us on the	The Moon has a (smaller/ greater) mass t Earth so the gravitational pull on the Moon is (smaller/ greater) than it is on Earth. Jupiter has a (smaller/ greater) mass than Ec so the gravitational pull on Jupiter is(smal greater) than it is on Earth.		The more wheels in a pulley, the less force is needed to lift a weight When two gears are connected, they always turn in the same direction to each other A lever always rests on a pivot

# Year 5 Forces Answers



Write the name of the force in action next to each arrow.







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friction	a type of fric	tion caused by air pushing against 11 the ground?		ry of gravity when he saw an apple fall to ound?	
air resistance	a force that acts between two surfaces or objects that are moving (or trying to move) across each other		Isaac Newton		
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Write <b>true</b> or <b>false</b> next t Friction always acts direction to the moving o Friction always speeds up object. <b>false</b> Smooth surfaces create r rough surfaces. <b>false</b>	in the opposite object. <b>true</b> p a moving	<ul> <li>Give an example of when friction is</li> <li>Example answers include: <ul> <li>brakes on a car or bike</li> <li>grips on the sole of a shoe</li> <li>air resistance slowing a parachute down</li> </ul> </li> </ul>	helpful.	<ul> <li>Give an example of when friction is unhelpful.</li> <li>Example answers include: <ul> <li>friction on a bike chain slowing down pedalling</li> <li>water resistance slowing down a swimmer</li> </ul> </li> </ul>	





# Year 5 Forces Answers

