Year 5 Forces

Draw a line to match the word to its definition.		Name three 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					

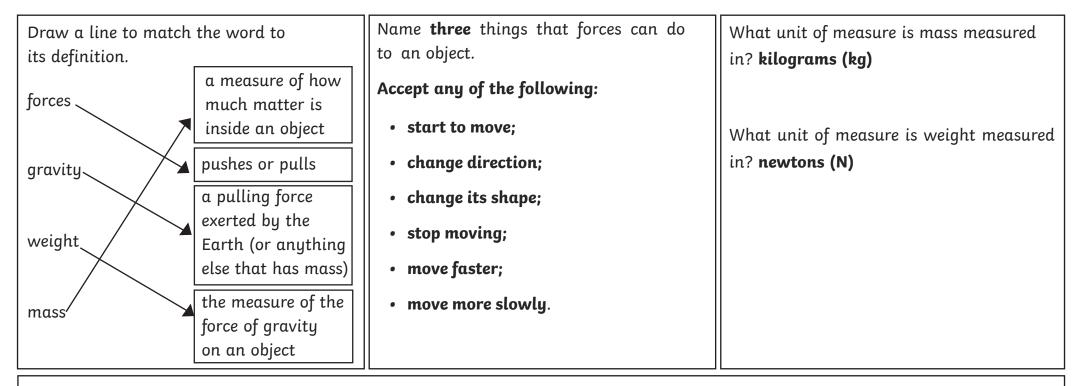
Year 5 Forces

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 true or false 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.

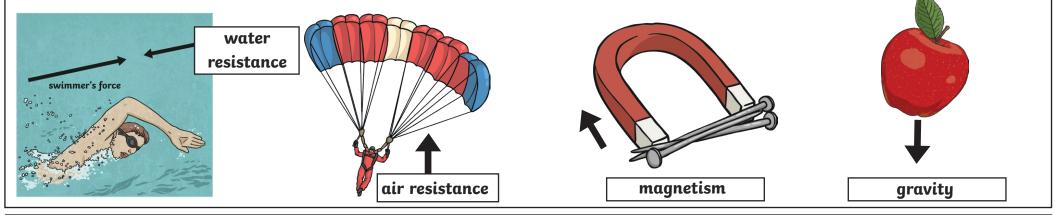
Year 5 Forces

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 true or false 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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Year 5 Forces Answers

Draw a line to match each word to its definition.			What is the name of the scientist who developed		
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		
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 true or false next t Friction always acts direction to the moving o Friction always speeds up object. false Smooth surfaces create r rough surfaces. false	in the opposite object. true p a moving	 Give an example of when friction is Example answers include: brakes on a car or bike grips on the sole of a shoe air resistance slowing a parachute down 	helpful.	 Give an example of when friction is unhelpful. Example answers include: friction on a bike chain slowing down pedalling water resistance slowing down a swimmer 	





Year 5 Forces Answers

