

Sacred Heart Catholic Primary School



Topic: Forces	Knowledge and application		
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Knowledge and application Mass is how much matter is inside an object. It is measured in kg. Isaac Newton is famously thought to have developed his tehory of gravity when he saw an apple fall to the ground from an apple tree. Weight is how strongly gravity is pulling an object down. It is meaaured in newtons (N). Water resistance and air resistance are forms of friction. Fricition is sometimes helpful and sometimes unhelpful eg air resistance is helpful as it stops the skydiver hit the ground at high speed, Friction on a bike chain can make the bike harder to pedal so it is unhelpful.			
		swimmer's force	water resistance air resistance
			Key Vocabulary
Newton	Newton developed the theory of gravity and made breakthroughs in the area of optics, such as the reflecting telescope.		
Galileo	Galileo developed the telescope to enable close observation of the night sky		
Friction	Friction is a force between two surfaces that are sliding, or trying to slide, across each other.		
Gravity	Gravity is a force which tries to pull two objects towards each other.		
Air resistance	Air resistance is a type of friction between air and another material. e.g. when an aeroplane flies through the air.		
Water resistance	If you go swimming, there is friction between your skin and the water particles.		
streamlined	When an object is shaped to minimise the effects of air or water resistance.		
Earths gravitational pull	The pull that Earth exerts on an object, pulling it towards Earth's centre. It is the Earth's gravitational pull which keeps us on the ground.		
buoyancy	An object is buoyant if it floats. This is because the weight of the object is equal to the upthrust.		
Upthrust	A force that pushes objects up, usually in a fluid		
motion	The action or process of moving or being moved		
Books/ Websites			
arceusing archedeus Selenda Gut-Wrenchin Gravity	Gut Wrenching Gravity – Anna Claybourne		
	Weight is how meaaured in ne Water resistant sometimes help helpful as it sto on a bike chair Swimmer's force Simmer's Simmer's force Simmer		