Science KS3 Assessment Framework					
	Beginning	Working Towards	Expected	Exceeding	Excelling
	Grade 1	Grade 2-3	Grade 4-5	Grade 6-7	Grade 8-9
	l can:	l can:	l can:	l can:	I can:
	Speed	Speed	Speed	Speed	Speed
	Name the unit of force and the equipment to	State what forces can do	Estimate and accurately measure some forces	Interpet simple force diagrams and interaction pair	
	measure it			situations	interaction pair situations
	Know that forces can be combined to work out the	Recognise when forces in simple diagrams are	Describe what happens to an object when	Compose force diagrams to describe objects in	Explain why unbalanced forces change an
	resultant force	balanced and unbalanced	resultant force is zero	equilibrium involving gravity	object's speed or direction
	State the unit of speed	Calculate speed using s=d/t	Describe the link between speed and journey time	Calculate the average speed of a journey	Use ideas about relative motion to explain why
					the speed of an object can appear to change
	Know that a journey can be represented on a distance-time graph	Identify areas on a d-t graph when an object is stationary	Describe how speed affects gradient on a d-t graph	Interpret and explain why d-t graphs may have curved lines	Calculate speed using a d-t graph
	distance time graph	Stationary	Brahii	curved intes	
	Gravity	Gravity	Gravity	Gravity	Gravity
	State that gravity is a non-contact pulling force	Describe what factors affect the strength of the	Calculate weight on different planets	Explain why objects remain in orbit	Rearrange the gravity equation to calculate mass
		gravitational force			or gravity in different situations
Forces	Contact Forces	Contact Forces	Contact Forces	Contact Forces	Contact Forces
Torces	Contact Forces	Contact Forces	Contact Forces	Contact Forces	Contact Forces
	Name some examples of contact forces	Sketch diagrams to show contact forces acting on	Describe the effect of, and how to reduce, drag	Use ideas about particles to explain why drag	Use ideas about resultant force to explain why
		objects	forces on objects	forces affect motion	streamlining and lubrication affect the motion of objects
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	Realise that inert objects arounds us produce a	Describe what forces can do to objects	Accurately collect and interpret data to show	Explain why objects produce a reaction force	Use force-extension graphs to illustrate
	reaction force when we touch them		Hooke's Law		proportional and non-linear relationships
	Identify the pivot in simple situations	Describe a moment as the turning effect of a force	Calculate moments and deduce the law of	Balance see-saws with multiple clockwise or	Use ideas about moments and centre of gravity
			moments for objects in equilibrium	anticlockwise moments	to explain why objects may or may not fall over
	Pressure	Pressure	Pressure	Pressure	Pressure
	Identify some fluids	Describe how pressure in fluids is produced and what	Use ideas about particles to explain observations	Calculate pressure	Explain why atmospheric pressure can change
	identity some naids	factors affect pressure	and phenomena	Calculate pressure	Explain why authospheric pressure can change
	Know that liquids cannot be compressed	Describe how liquid pressure changes with depth	Use ideas about arrangement of particles to	Calculate pressure	Use ideas about particles, pressure and upthrust
			explain how hydraulic machines work		to explain why objects float or sink
	State what is meant by stress	Describe how force and area affect stress	Complete a valid investigation into stress	Calculate stress	Use ideas about stress to suggest how the
					following objects work: knives, snowshoes, boot studs, bed of nails.