

Year 5 Science : Forces



<u>Prior Learning</u>	<u>Sticky Knowledge</u>		Vocabulary	
 I can compare how things move on different surfaces. I know that some forces need contact between two objects, but magnetic forces can act at a distance. I can observe how magnets attract or repel each other and attract some materials and not others. I can compare and group a variety of everyday materials on the whether they are magnetic or not. I can identify some magnetic materials through my exploration. I know that magnets have two poles. I can predict whether two magnets will attract or repel each other, depending on which poles are facing. 	 I know that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and 	Accelerate / Acceleration	When the speed of an object increases as forces act on it.	
	 the falling object. I can identify the effects of air resistance, water resistance and friction, that act between moving surfaces. 	Air Resistance	A force caused by air with the force acting in the opposite direction to direction to an object that is moving through the air. This is	
	 I know that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect. 	Decelerate / Deceleration	When the speed of an object decreases as forces act on it.	
		Force	A push or pull upon an object, measured in Newtons (N).	
Balanced Force		Friction	The resistance that a surface or object puts on another object that is touching it as it moves.	
300 N	00 N	Gravity	The force that attracts objects towards the	
		Lever	A bar resting on a pivot that is used to move an object. Can be used to increase the	
		Mass	The measure of the amount of matter in an	
		Pull Force	To draw or haul towards oneself or itself, in a	
Unbalanced Force	SOO N	Pulleys	A wheel with a grooved rim around that changes the direction of a force applied to the	
ioo n		Push Force	To move something by exerting force on it.	
	Drag Thrust	Water Resistance	A force that is caused by water with the force acting in the opposite direction to an object moving through the water. This is sometimes	
	Weight	Weight	The force of gravity that acts on an object. This gets bigger as the mass of an object is	