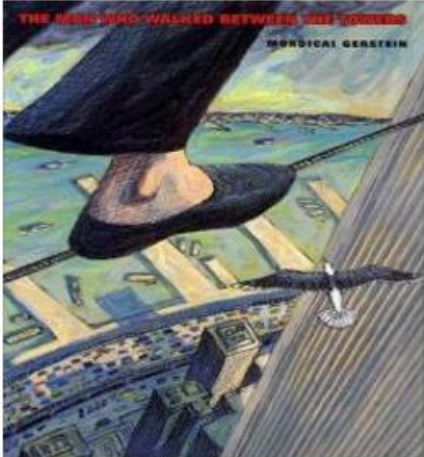




# Year 5: Forces Knowledge Mat

Subject Specific Vocabulary		Interesting Book	Sticky Knowledge about Forces
<b>friction</b>	Friction is a force between two surfaces that are sliding, or trying to slide, across each other.	 <p><b>Important facts to know by the end of the forces topic:</b></p> <ul style="list-style-type: none"> <li>• <b>know what gravity is and its impact on our lives.</b></li> <li>• <b>identify and know the effect of air resistance.</b></li> <li>• <b>identify and know the effect of water resistance.</b></li> <li>• <b>identify and know the effect of friction.</b></li> <li>• <b>explain how levers, pulleys and gears allow a smaller force to have a greater effect.</b></li> <li>• <b>know who Isaac Newton and Galileo were.</b></li> </ul>	<input type="checkbox"/> Frictional force is any force that is caused due to friction. An example of this might be when you put on the brakes on your bike.
<b>gravity</b>	Gravity is a force which tries to pull two objects toward each other.		<input type="checkbox"/> Gravity is the pulling force acting between the Earth and a falling object, for example when you drop something. Gravity pulls objects to the ground.
<b>air resistance</b>	Air resistance is a type of friction between air and another material. For example, when an aeroplane flies through the air.		<input type="checkbox"/> Surface resistance is the force on objects moving across a surface, such as an ice-skater skating on ice.
<b>water resistance</b>	If you go swimming, there is friction between your skin and the water particles.		<input type="checkbox"/> Any kind of force is really just a push or a pull.
<b>levers</b>	A lever can be described as a long rigid body with a fulcrum along its length.		<input type="checkbox"/> Air resistance is the force on an object moving through air, such as a plane moving through the sky. Air resistance affects how fast or slowly objects move through the air
<b>pulleys</b>	Pulley is a simple machine and comprises of a wheel on a fixed axle, with a groove along the edges to guide a rope or cable.		<input type="checkbox"/> Water resistance is the force on objects floating on or moving in water.
<b>gears</b>	Gears are wheels with teeth that slot together. When one gear is turned the other one turns as well.		<input type="checkbox"/> Magnetic force is an invisible force created by electrons. Magnetic force controls magnetism and electricity.
<b>parachute</b>	A parachute is a device used to slow down an object that is falling towards the ground. As the parachute opens, the Air resistance increases.		
<b>Galileo</b>	Galileo developed the telescope to enable close observation of the night sky.		
<b>Newton</b>	During his lifetime Newton developed the theory of gravity and made breakthroughs in the area of optics such as the reflecting telescope.		