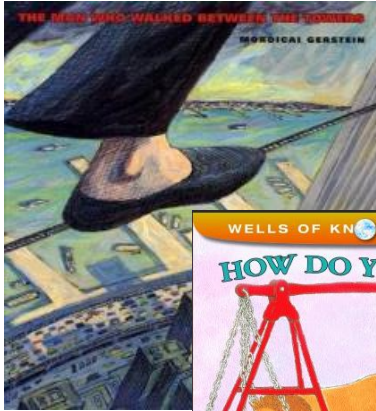
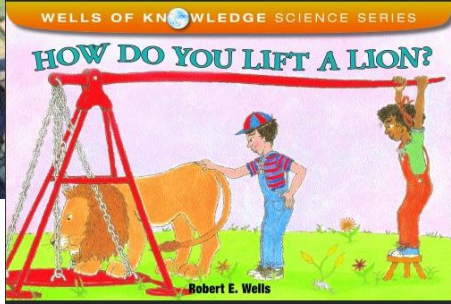


Mighty Oaks Knowledge Organiser - Forces

Subject Specific Vocabulary		Interesting Books	Sticky Knowledge about Forces
friction	Friction is a force between two surfaces that are sliding, or trying to slide, across each other.	 <p>The Man Who Walked Between the Towers.</p> 	<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.
gravity	Gravity is a force which tries to pull two objects towards 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.
air resistance	Air resistance is a type of friction between air and another material. For example, when an aeroplane flies through the air.		<input type="checkbox"/> Forces can be contact or non-contact. Contact forces are where objects exert force on one another: Friction is a contact force. Non-contact forces are 'invisible' like gravity.
water resistance	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.
levers	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
pulleys	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.	Important facts to know by the end of the forces topic: <ul style="list-style-type: none"> • Know what gravity is and its impact on our lives. • Identify and know the effect of air resistance. • Identify and know the effect of water resistance. • Identify and know the effect of friction. • Be able to identify the type and direction of forces acting on objects. • Explain how levers, pulleys and gears allow a smaller force to have a greater effect. • Know who Isaac Newton and Galileo were. 	<input type="checkbox"/> Water resistance is the force on objects moving in water.
gears	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.
Force meter	A force meter is a device used for measuring the amount of force. Force is measured in Newtons.		
Galileo	Galileo (1564-1642) developed the telescope to enable close observation of the night sky.		
Newton	During his lifetime, Newton (1642-1717) developed the theory of gravity and made breakthroughs in the area of optics, such as the reflecting telescope.		