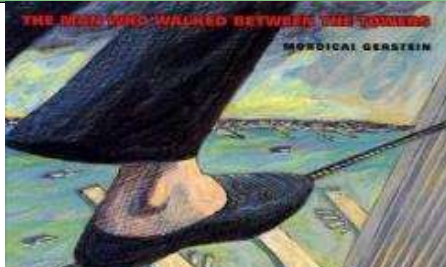


Year 5: How do forces effect how objects fall?

Subject Specific Vocabulary		Interesting Book	Sticky Knowledge about Forces	
friction	Friction is a force between two surfaces that are sliding, or trying to slide, across each other.	 A Scientist just like me  Isaac newton	☐ 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.		☐ 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.		☐ Surface resistance is the force on objects moving across a surface, such as an ice-skater skating on ice.	
water resistance	If you go swimming, there is friction between your skin and the water particles.		☐ 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.		☐ 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: • 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. • Explain how levers, pulleys and gears allow a smaller force to have a greater effect. • Know who Isaac Newton and Galileo were.	☐ Water resistance is the force on objects floating on or moving in water.	
gears	Gears are wheels with teeth that slot together. When one gear is turned the other one turns as well.		☐ Magnetic force is an invisible force created by electrons. Magnetic force controls magnetism and electricity.	
parachute	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.			
Galileo	Galileo developed the telescope to enable close observation of the night sky.			
Newton	During his lifetime, Newton developed the theory of gravity and made breakthroughs in the area of optics, such as the reflecting telescope.			