



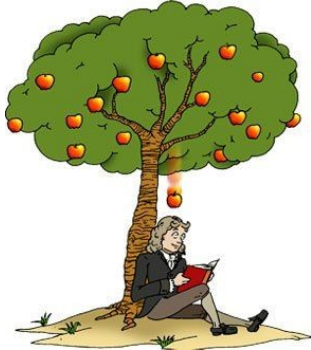
St Paul's Church of England Primary School



Don't let anyone look down on you because you are young but set an example for the believers in speech; in conduct; in love; in faith

and in purity."

(1 Timothy 4:12)

Subject: Science	Year group: 5 Term: Spring 2	Title: Forces - Physics
What should I know? • That some objects are attracted to magnets and others are not • That there are different types of magnets • That objects move differently on surfaces • How magnets can attract or repel each other • Which type of materials are attracted to magnets and which are not • How to group objects based on whether they are magnetic or not • That magnets have 2 poles • How to make predictions about whether magnets will attract or repel.	Facts I will learn ... • The different types of forces • How gravity works, who discovered it and how • The effect of air resistance, water resistance and friction on different surfaces • That some mechanisms (levers) allow a smaller force to have a greater effect 	Key questions ... • What is friction? When is it useful? What if there was no friction? • How can objects be moved more easily? • How can we slow down a moving object? • Why does everything fall to the ground when thrown in the air? • How can you measure a force? • How can we make a small force have a big effect? • What are levers/pulleys and how are they useful? • Can more than one force be acting on something? • Which is the largest force in each situation?
Key Skills...	Experiences that school may provide:	Key vocab and definition

- Identifying different forces and how they are acting - Explaining the effect forces have on an object	- Experiments to test and make predictions about effects of forces - Learn how to use a Newton metre	Friction	The resistance that one surface or object encounters when moving on another
Web links https://www.bbc.co.uk/bitesize/subjects/z2pfb9q (Forces and Motion area) https://www.legendsoflearning.com/learning-objectives/gravitational-force/	Experiences that could be provided at home... Looking for how forces are acting in your home	Air resistance	The friction felt between the air and an object moving through it
		Water resistance	The friction felt between water and an object moving through it
		Gravity	The force that attracts a body to the centre of the Earth
		Newtons	The unit a force is measured in
		Surface	The level top of something
		Movement	An act of moving
		Force	A strength or energy in a movement