Forces in Action Class 3 and 4							
Key Vocabulary							
Forces	Pushes or pulls	Gravity	A pulling Earth (or which ha	g force exerted by r anything else as mass)	Gravitational Pull	The pull that the Earth exerts on an object, puling it towards the Earth's centre. Keeps us on the ground!	The moon has a smaller mass than Earth so the gravitational pull on the moon is smaller than it is on Earth.
Weight	The measure of the force of gravity on an object.	Mass	A measure of how much matter (stuff) is inside an object.				Jupiter has a great mass than Earth so the gravitational pull on Jupiter is stronger than Earth.
Air Resistance	A type of friction caused by air pushing against any moving object.	Water Resistance	A type of friction caused by water pushing against any moving object.		Friction	A force that acts between two surfaces or objects that are moving across each other.	
Streamlined	When an object is shaped to minimise the effects or air or water resistance.	Mechanism	Parts which work together in a machine e.g. pulleys, gears and levers.		Buoyancy	An upward force that a liquid applies to an object.	
Key Knowledge							
How do Examples of forces in action:							
forces work?	Start to move.       change     stop moving.       change     Forces       change     move       direction.     faster.       change its shape.     move more slowly.   Sometimes helpful and unhelpful. What do you think? What is streamlining.						
Who is Isaac	Isaac Newton is famously th		How can mechanisms change forces?				
what is gravity?	<pre>/hat is apple fall from the tree. ravity?</pre>				ed to make a ghter load. The pulley, the less	<b>Gears/Cogs</b> Can be used to change the speed, force or direction of a motion. When two gears are connected, they always turn in the opposite direction.	<b>Levers</b> Can be used to make a small force lift a lighter load. A lever always rests of a pivot.
Prior Learning Next Steps							
Children will have learnt about friction and magnetism At KS3, the children will learn about:							
- Forces and movement							