	Science	Forces Year 5
	Key Vocabulary	Key Knowledge
WORD	DEFINITION	Gravity is a force which acts at a distance. It is a pull force that pulls objects towards the centre of the Earth.
Air resistance	the force that air exerts on a moving object.	The planets and the Sun do not touch, yet the planets stay in
Force	a push, pull, twist or turn.	 orbit around the Sun due to the force of gravity. Friction is a force created between two surfaces when they
Friction	the force between 2 moving surfaces.	rub together. Friction creates heat and always slows down an
Gravity	a pushing force exerted by the Earth, it attracts objects towards the centre of the Earth.	object. Rough surfaces create more friction than smooth surfaces.
Mass	the measure of how much matter is inside an object, can be measured in g/kg etc.	Mass and Weight: The mass of an item can be measured in Grams/Kilograms. Weight is how much force is needed to pull an object and is measured in Newtons.
Mechanisms	machines or devices which help to achieve a result.	
Streamlined	when an object is shaped to minimise the effects of air or water resistance.	
Water resistance	the force that water exerts on a moving object.	
Weight	the measure of the force of gravity on an object, measured in Newtons (N)	experiments to test mass.
sometimes unhe	<u>Forces in Action</u> e and air resistance are forms of friction. Friction is sometin elpful. For example, air resistance is helpful as it stops the sk peed.	
sometimes unhelpful. For example, air resistance is helpful as it stops the sk ground at high speed.		Levers Levers are a bar that rotates around a point. They make it easier to lift a heavy load.
Friction		Water Gears/Cogs Gears are toothed wheels that mesh together, they rotate in opposite directions. Opposite

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