Northampton Primary Academy Trust Science Year 5 Summer One Knowledge Organiser

Forces – Knowledge Organiser Year 5 Summer 1			
	Vocabulary		Water resistance
gravity	The force attracting two objects towards each other. It keeps the Moon and planets in orbit.		thrust
newton (N)	Unit of measurement of forces.		
Force meter (newton meter)	An instrument with a spring for measuring forces.	Force meter	Water resistance
mass	A measure of how much of something there is. Measured in g and kg.		
weight	The force experienced when gravity pulls an object downwards.	Friction Friction	Lever
friction	The force between two surfaces that causes moving objects to slow down. Creates heat.		Pivot point
lubrication	The addition of a fluid between moving surfaces to reduce friction.		1
air resistance	A type of friction caused by air pushing against a moving object.	Broke Pads	fulcrum
water resistance	A type of friction caused by water pushing against a moving object.		Pulley
streamlined	Being smooth, narrow or pointed in shape to reduce air or water resistance.		PULLEY
upthrust	Upwards force in a fluid. In water, this helps to keep swimmers and boats afloat.		PULLEY
load	An object with mass that is lifted (by a machine).	Useful Nuisance	
machine	Device that makes work easier (e.g., by reducing the effort needed to lift a load).	Air resistance	Gears
lever	Simple machine made of a long, rigid arm or bar that <i>pivots</i> around a <i>fulcrum</i> to lift a load.	↑ <u>*</u> ↑	$\{\bigcap_{i=1}^{n}\}$
pulley	Simple machine made of a grooved wheel on a fixed axle , which guides a rope or cable to lift a load.	Air resistance	103 203
gears	Simple machines made of toothed wheels slotting together. When one turns so does another. If the gears are different sizes, they can increase the power of a turning force.	gravity	

