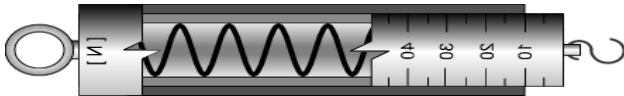
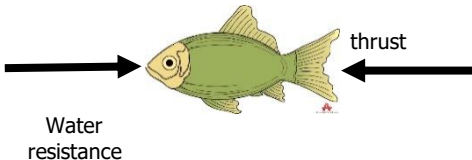
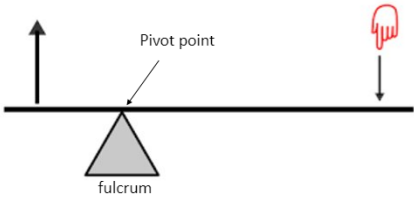
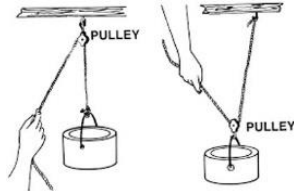
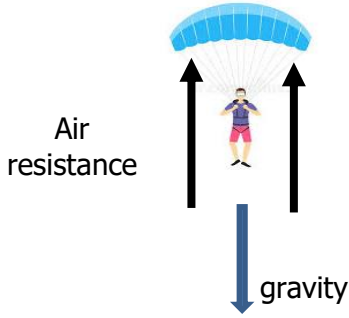
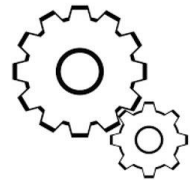
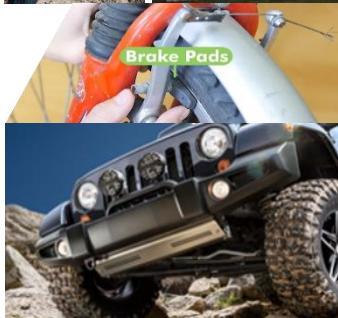
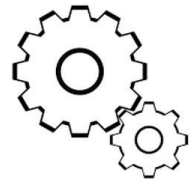
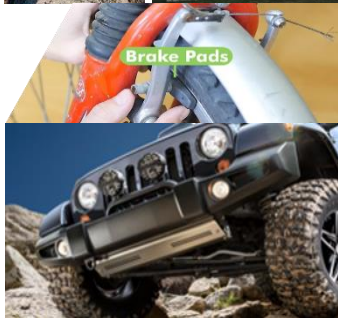
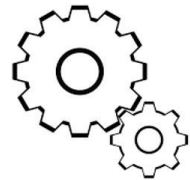
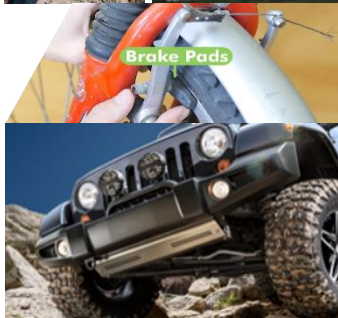
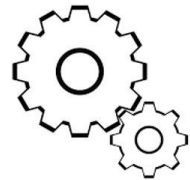
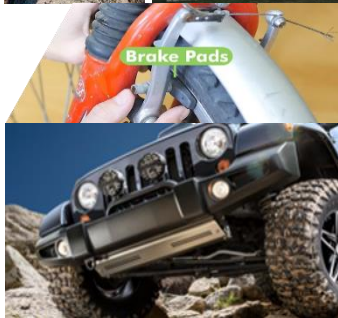
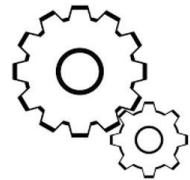


Forces – Knowledge Organiser Year 5 Summer 1

Vocabulary		Force meter		Water resistance
gravity	The force attracting two objects towards each other. It keeps the Moon and planets in orbit.			
newton (N)	Unit of measurement of forces.			
Force meter (newton meter)	An instrument with a spring for measuring forces.	Friction  Useful		Lever 
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  Nuisance		Pulley 
friction	The force between two surfaces that causes moving objects to slow down. Creates heat.			
lubrication	The addition of a fluid between moving surfaces to reduce friction.	Air resistance 		Gears 
air resistance	A type of friction caused by air pushing against a moving object.			
water resistance	A type of friction caused by water pushing against a moving object.	Useful 		Gears 
streamlined	Being smooth, narrow or pointed in shape to reduce air or water resistance.			
upthrust	Upwards force in a fluid. In water, this helps to keep swimmers and boats afloat.	Useful 		Gears 
load	An object with mass that is lifted (by a machine).			
machine	Device that makes work easier (e.g., by reducing the effort needed to lift a load).	Useful 		Gears 
lever	Simple machine made of a long, rigid arm or bar that pivots around a fulcrum to lift a load.			
pulley	Simple machine made of a grooved wheel on a fixed axle , which guides a rope or cable to lift a load.	Useful 		Gears 
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.			