



Previous Learning:		Key vocabulary	Definitions
In Year 3, you compared how things moved on different surfaces. You also noticed that some forces need contact between two objects, but magnetic forces can act at a distance. You observed how magnets attract or repel each other and attract some materials and not others. You also learnt to compare and group together a variety of every- day materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials.		force	Pushes or pulls
		gravity	A pulling force exerted by the Earth (or anything else which has mass).
Isaac Newton is famously thought to have developed his theory of gravity when he saw an apple fall to the ground from an apple tree.	The Moon has a smaller mass than Earth so the gravi- tational pull on the Moon is smaller than it is on 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, or trying to move, across each other.
	Air resistance	mechanisms	Mechanisms are simple machines with moving parts that change input forces and movement into a set of useful output forces. Examples of mechanisms are pulleys, gears and levers.
 Pulleys can be used to make a small force lift a heavier load. The more wheels in a pulley, the less force is needed to lift a weight. Gears or cogs 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 to each other. Levers can be used to make a small force lift a heavier load. A lever always rests on a pivot. The Moon has a smaller mass than Earth, so the gravitational pull on 		levers	Levers can be used to make a small force lift a heavier load. A lever always rests on a pivot.
		pulleys	Pulleys can be used to make a small force lift a heavier load. The more wheels in a pulley, the less force is needed to lift a weight.
		gears	Gears or cogs 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 to each other.
Were relations engine a these manual theorem		mass	A measure of how much matter (or 'stuff') is inside an object
Jupiter has a grea Earth so the grav Jupiter is stronge Water resistance and air resistance are forms of friction.			to learn about and explore the different acting around us when you are in secondary