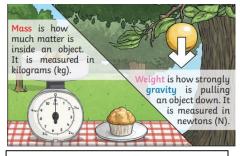
FORCES – RED SQUIRREL CLASS

Key Vocabulary		The Moon has a smaller
forces	Pushes or pulls	start to move. stop moving. mass than Earth so the gravitational pull on the Moon is smaller than it
friction	A force that acts between two surfaces or objects that are moving, or trying to move, across each other.	change direction.
gravity	A pulling force exerted by the Earth (or anything else which has mass).	change its shape. move more slowly.
air resistance	A type of friction caused by air pushing against any moving object.	Examples of forces in action:
water resistance	A type of friction caused by water pushing against any moving object.	swimmer's water force resistance gravity cyclist's driving force
buoyancy	An object is buoyant if it floats.	air resistance
stream-lined	When an object is shaped to minimise the effects of air or water resistance.	Water resistance and air resistance are forms of friction. Friction is son helpful and sometimes unhelpful. For example, air resistance is helpful as the skydiver hitting the ground at high speed. Friction on a bike chain ca the bike harder to pedal so it is unhelpful.
mechanism	Mechanisms are simple machines with	
	moving parts that change input forces and	Examples of mechanisms are pulleys, gears and levers.
upthrust	A force that pushes objects up, usually in	Pulleys Gears/Cogs L
uputitusi	water.	



pointed nose to cut through the water, and a smooth, low, curved back to allow the water to flow over and around it.

has

α

It

Important people and places:

Sir Isaac Newton



Links to previous learning:

This shark is streamlined.

Famous scientists and inventors •

It does not create much water resistance

so it can move through the water quickly.

Space •

ass than Earth so the avitational pull on the oon is smaller than it is on Earth.



Jupiter has a greater mass than Earth so the gravitational pull on Jupiter is stronger than on Earth.



riction. Friction is sometimes resistance is helpful as it stops ion on a bike chain can make

ind levers.

