Science – Forces – Year 5 – Summer 2

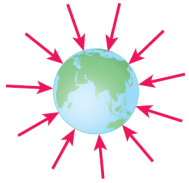
Vocabulary Top Ten:

air resistance	a type of friction between air and another material
force	a push or a pull
friction	the rubbing of one thing against another
gears	wheels with teeth (indentations) which lock together and turn one another
gravity	a force that pulls things down towards earth
lever	a bar resting on a pivot, used to move a heavy load with one end when pressure is applied to the other
pulley	a wheel or a collection of wheels over which a rope is looped, used for lifting heavy things
streamlined	a smooth shape that easily moves through air or water
up thrust	the force which keeps things afloat in water
water resistance	a type of friction between water and another material

Isaac Newton

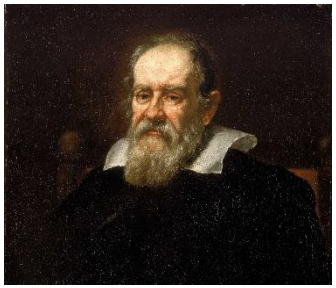


Born: 1642
Died: 1727
Nationality: British



A scientist, mathematician and astronomer who developed the theory of **gravity**.
We measure gravity in Newtons (N).

Galileo Galilei

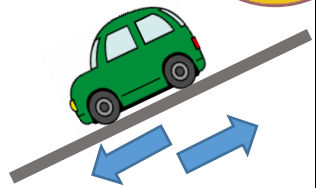


Born: 1564
Died: 1642
Nationality: Italian

Galileo developed many mathematical theories about motion and mechanics. He suggested that all things fall to the ground at the same speed, even with different masses.

Friction

Friction causes things to slow down or stop. The amount of friction depends on the materials from which the two surfaces are made. The rougher the surfaces, the greater the friction.



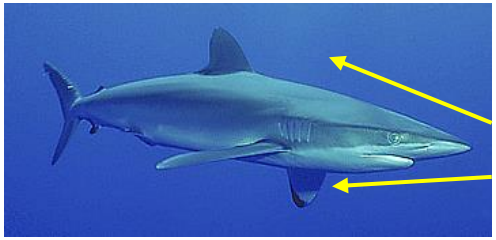
Air Resistance

PUSH
air
resistance

PULL
gravity



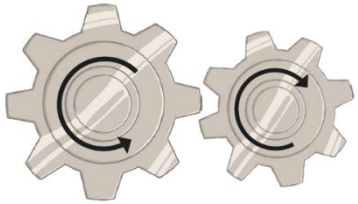
Water Resistance



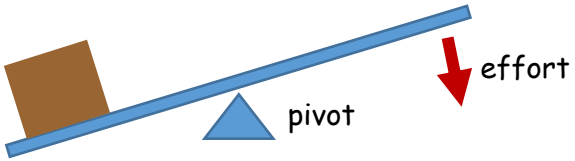
A shark has a streamlined body shape to help it swim through water more easily.

A **mechanism** is the moving parts of a machine.

gears:



lever:



pulley:

