

Knowledge Organiser Year 5/6 Science: Forces

Tier 3 Vocabulary	
buoyancy	An object is buoyant if it floats. This is because the weight of the object is equal to the upthrust .
friction	Friction is a force that slows moving objects when surfaces rub together.
gears	Gears are wheels with small bumps on their rim called teeth.
magnetic field	The ' magnetic field ' is the area around the magnet where its force can be felt.
mass	Mass is a measurement of the amount of matter something has.
matter	Matter is anything that has weight and takes up space.
Newtons	Newtons are a measure of force named after scientist Sir Isaac Newton.
Newton meter	A Newton meter is a piece of equipment that is used to measure the forces acting on an object.
particle	A particle is an extremely tiny piece of matter .
pulley	A pulley is a machine that helps to move objects around by making a small force a large force.
upthrust	Upthrust is a force that pushes objects up, usually in water.
weight	Weight is a measurement of the force exerted on a mass by gravity .

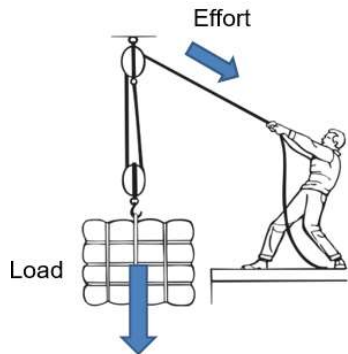


Water resistance is a type of **friction** caused by water pushing against any moving object.



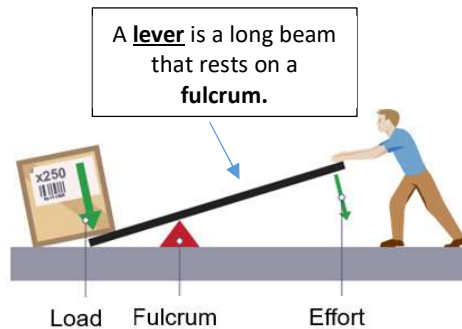
Air resistance is a type of **friction** caused by air pushing against any moving object.

Pulleys



The **load** is the force being lifted

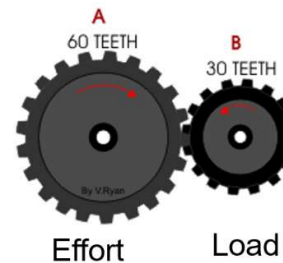
Levers



The **fulcrum** is what the **lever** turns on.

Effort is the force needed to move a

Gears



Gears or cogs can be used to change the speed, force or direction of a motion.

