

## Knowledge Organiser Year 5/6 Science: Forces

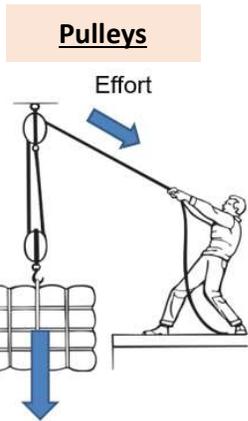
Tier 3 Vocabulary	
buoyancy	An object is <b>buoyant</b> if it floats. This is because the <b>weight</b> of the object is equal to the <b>upthrust</b> .
friction	<b>Friction</b> is a force that slows moving objects when surfaces rub together.
gears	<b>Gears</b> are wheels with small bumps on their rim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



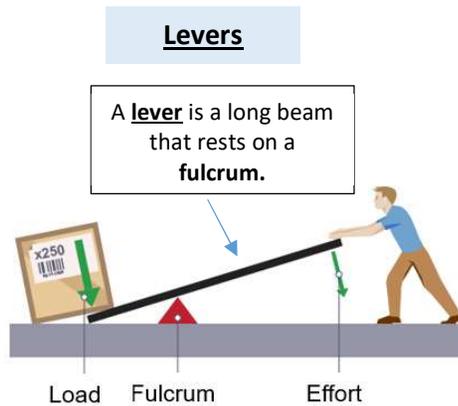
**Water resistance** is a type of friction caused by water pushing against any moving object.



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

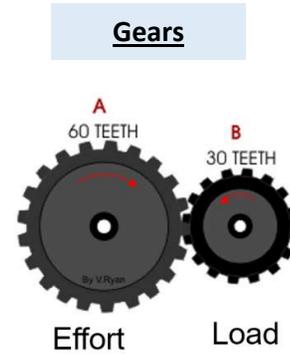


The **load** is the force being lifted



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

**Effort** is the force needed to move a



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

