

Year: 5

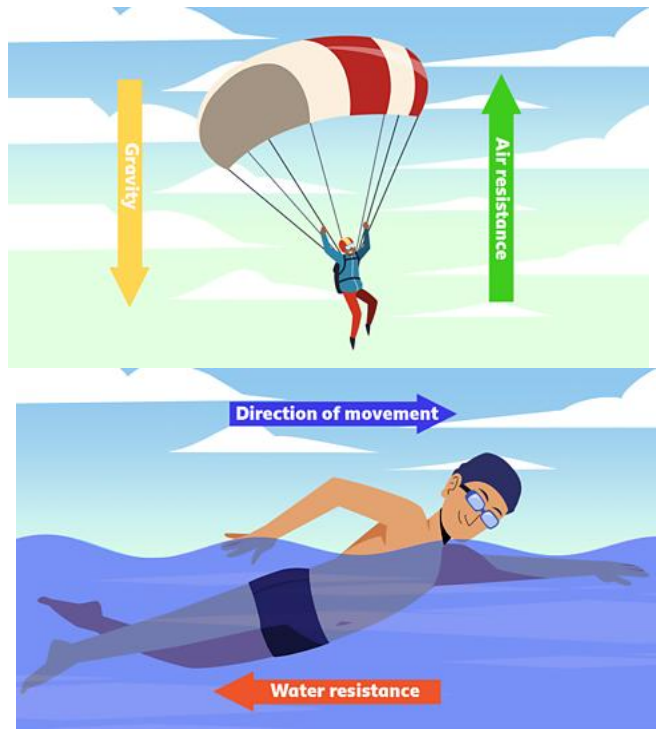
Term: Autumn 2

Topic: Forces

Important Facts:

- A force causes an object to start moving, stop moving, speed up, slow down or change direction.
- Gravity is a force that acts at a distance.
- Everything is pulled to the Earth by gravity. This causes unsupported objects to fall.
- Air resistance, water resistance and friction are contact forces.
- A mechanism is a device that allows a small force to be increased to a larger force.
- Pulleys, levers and gears are all mechanisms, also known as simple machines.

Key concepts / diagrams:



Vocabulary:

gravity	the force that pulls everything down towards the Earth
force	a push or pull that can make something move, stop or change shape
air resistance	the force that slows things down as they move through air
friction	the force that slows things down when they rub against each other
lever	a simple machine that helps lift or move things more easily
pulley	a wheel with a rope or chain that helps lift or move heavy objects
gear	a wheel with teeth that fits into other gears to make things move or change speed
mechanism	a set of moving parts working together to make something happen
water resistance	the force that slows things down as they move through water

Working Scientifically:



comparative and fair test

- Use force meters and stopwatches correctly
- Take repeat readings
- Select appropriate measuring equipment