

Key facts:

- ✓ Isaac Newton first discovered gravity when he sat under a tree and an apple fell on his head.
- ✓ The greater the mass of something, the greater the weight.
- ✓ The bigger the surface area, the greater the resistance.
- ✓ Your mass does not change on other planets but your weight

Year 5- Autumn term topic 2- Forces

Key Vocabulary:

Gravity- A force which pulls things to the centre of the Earth

Forces- an influence that can change the motion of an object

Weight- the force acting on the object due to gravity

Mass- quantity of matter in a physical body

Newtons- a unit of measurement

Meteor- a small body of matter from outer space that enters the earth's atmosphere

Meteorite- a solid piece of debris from an object, such as a comet, asteroid, or meteoroid, that originates in outer space and survives its passage through the atmosphere to reach the surface of a planet or moon

Acceleration- an increase in speed

Deceleration- a decrease in speed

Air resistance- a force which resists motion through air

Water resistance- a force which resists motion through water

Friction- a force which resists the motion of objects sliding over each other

Parachute- a cloth canopy which fills with air and allows a person or heavy object attached to it to descend slowly when dropped

Inquiry question- the question you are researching

Hypothesis- what you think will happen

Dependent variable- the results/ thing that changes in your experiment

Independent variable- the thing that you change in the experiment

Terminal velocity- the constant speed that a freely falling object reaches when the resistance is equal to the weight

Mechanism- a system of parts working together in a machine; a piece of machinery

Lever- a rigid bar resting on a pivot, used to move a heavy or firmly fixed load with one end when pressure is applied to the other

Pulley- a wheel on an axle or shaft that is designed to support movement and change of direction of a taut cable or belt

Forces acting on an Aeroplane

