

Year 5

Science - Forces

Key Vocabulary	
forces	Pushes or pulls
air resistance	A type of friction caused by air pushing against a moving object.
gravity	A pulling force exerted by the earth
weight	The measure of the force of gravity on an object.
mass	A measure of how much mass (or stuff) is inside an object.
earth's gravitational pull	The pull that earth exerts on an object, which pulls it towards the earth's core.
water resistance	A type of friction caused by water pushing against a moving object.
buoyancy	An object is buoyant if it floats.
streamlined	When an object is shaped to minimise the effects of air or water resistance.
upthrust	A force that pushes objects up, usually in water.
mechanism	Examples of mechanisms are pulleys, gears and levers.
friction	A force that acts between two surfaces or objects that are moving.



Key Learning
Know that unsupported objects fall towards earth because the force of gravity pulls them down. Know that gravity is measured in Newtons. Know that Sir Isaac Newton discovered gravity.
Identify the effects of air resistance by investigating helicopters.
Identify the effects of water resistance.
Identify the effects of friction on different surfaces.
Recognise that some mechanisms including gears, pulleys and levers allow a smaller force to have a greater effect.

Are you a Milecastle Megamind?

What sort of surface would create the greatest friction?

What is gravity?

Why is it more difficult to walk in water than in air?