

Sir John Offley CE VC Primary School
'With God all things are possible'

KS2 year 5 Forces

Question	Answer
What is a force?	A push or pull
What can forces do?	They can make objects, speed up, slow down, change direction and change shape.
What is the unit of measuring forces?	Newton (N)
What is the difference between weight and mass?	Weight is a force measure in Newtons. Mass is measured in kg - a measure of how much matter is in an object.
How do you measure forces?	Using a force-meter / Newton-meter
What is gravity?	Gravity is a force that pulls objects towards the centre of the Earth. Unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.
What is friction?	A force between surfaces that are touching.
What is the effect of friction?	Rough surfaces – slow things down. Smooth surfaces – don't create much friction. Friction gives us grip, and produces heat.
What is air resistance?	A force felt by an object that is moving through the air.
What is the effect of air resistance?	Air resistance slows down moving objects. To travel faster – streamlined shape. To travel slower – larger surface area (parachute).
What is water resistance?	A force felt by an object that is moving through water.
What is the effect of water resistance?	Water resistance slows down moving objects. To travel faster – streamlined shape (sharks and speedboats)
How do we show the size and direction of a force in a diagram?	With arrows. Bigger arrow = bigger force.
What is a mechanism?	Mechanisms turn small forces into big effects. Mechanisms make it easier for us to do work (lifting/moving heavy objects).
What is a lever?	A pole that pivots around a fulcrum.

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What is a pulley?	A rope running through a wheel.
What is a gear?	Gears are wheels with teeth that fit together to turn each other.