Brooklands Primary School

Knowledge Organiser – Science: Autumn term Year 5



Forcemeter – a spring-loaded measuring instrument to measure weight (the force related to gravity)

Friction – The resistance that one surface or object encounters when moving over another

Gears – A toothed wheel that works with others to alter the relation between the speed of a driving mechanism (e.g. engine) and the speed of the driven parts (e.g. the wheels)

Gravity - The force that attracts a body towards the centre of the earth

Levers – A rigid bar resting on a pivot that is used to move a heavy or firmly fixed load

Mass - The weight measured by an objects acceleration under a given force or by the force exerted on it by gravity

Pull force - To draw or haul towards oneself or itself, in a particular direction

Pulleys – A wheel with a grooved rim around that changes the direction of a force applied to the cord

Push force – To move something in a specific way by exerting force

Water resistance - A force that is caused by water with the force acting in the opposite direction to an object moving through the water

Scientific Inquiry

How do forces affect the speed of an object? How do pulleys work?