

Preston Primary School Knowledge Organiser



Preston
Primary School

Science-Forces

Term: Autumn 2

Unit 4 - Year 5 & 6

Duration: 7 Weeks

Different types of forces

Gravity



Gravity is the force that pulls objects downwards towards the centre of the Earth.

Friction



Friction is the resistance between two surfaces that are in contact with each other.

Air Resistance



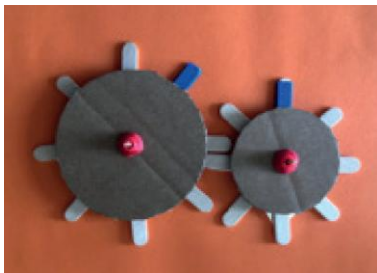
Air resistance pushes against moving objects.

Buoyancy



Buoyancy (or upthrust) is the force that pushes an object upwards.

Gears



Pulleys



Levers



Force Meter- measured in Newtons



Isaac Newton



Key Vocabulary

	Gravity	Gravity is the name for a force that pulls everything down toward the centre of the Earth. Gravity also pulls any object with mass toward each other.
	Friction	Friction is a force. The resistance of motion when one object rubs against another. Whenever two objects rub against each other, they cause friction. Friction works against the motion and acts in the opposite direction.
	Air resistance	Air resistance is a type of friction between air and another material. It is the opposing force that the object experiences as it passes through the air.
	Water resistance	Water resistance is a type of force that uses friction to slow things down that are moving through water. Water resistance doesn't have to be just water - it can happen to objects moving through any type of fluid.
	Upthrust	Upthrust force is simply any force that is causing something to be pushed upwards.