

Forces		
1	Force	a push or pull that acts on an object due to the interaction with another object
2	Newton meter	calibrated spring balance used to measure force
3	Magnetic	force experienced by a magnet or magnetic materials
4	Friction	force against the movement of an object
5	Electrostatic	force experienced by a charged particle in an electric field
6	Upthrust	upward force that is exerted on an object floating on a liquid or gas
7	Air resistance	force that acts on an object which is moving through the air
8	Contact force	force between 2 objects that are touching
9	Examples of contact forces	air resistance, thrust, tension, compression
10	Non-contact force	force between 2 objects that are not touching
11	Examples of non-contact forces	electrostatic, gravitational, magnetic
12	Balanced force	no overall force acting on an object
13	Unbalanced force	a resultant force acting on an object
14	Resultant force	overall force acting on an object
15	At rest	when an object is not moving
16	Free body diagram	a diagram that models the forces acting on an object
Gravity and Weight		
17	Mass	measure of the amount of matter an object is made from
18	Weight	force acting on an object due to gravity
19	Gravity	force that pulls 2 masses towards each other
20	Gravitational field strength	10N / kg on Earth
21	Density	Measure of the concentration of the mass of an object. Calculated using: $\text{density} = \text{mass} \div \text{volume}$

Speed and movement		
22	Distance	how far an object moves
23	Speed	distance travelled in a given time
24	Time	how long an event lasts
25	Speed equation	$\text{speed} = \text{distance} \div \text{time}$
26	Constant speed	the speed remains the same
27	Accelerating	change of speed
28	Stationary	the object is not moving
29	Gradient	Measure of the steepness of a straight line
Units		
30	Force	Newtons (N)
31	Mass	kilograms (kg)
32	Distance	metres (m)
33	Time	seconds (secs)
34	Speed	metres per second (m/s)
35	Volume	Centimetres cubed (cm <sup>3</sup> )
36	Density	Grams per centimetre cubed (g/cm <sup>3</sup> )