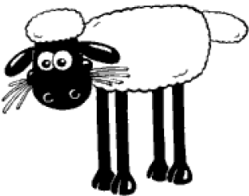



Rate of increase in speed (= change in speed/time)	Drag that a moving object will experience when moving through the air	Two or more forces that cancel out	Acceleration created by the force required to keep an object moving in a circle
<b>Acceleration</b>	<b>Air resistance</b>	<b>Balanced forces</b>	<b>Centripetal acceleration</b>
Force required to keep an object moving in a circle	Momentum after minus momentum before	Velocity after minus velocity before	Motion in a circle caused by a resultant force acting towards the centre of the circle
<b>Centripetal force</b>	<b>Change in momentum</b>	<b>Change in velocity</b>	<b>Circular motion</b>
The distance around a circle	Objects hitting each other	Sum of masses involved	Squeeze
<b>Circumference</b>	<b>Collision</b>	<b>Combined mass</b>	<b>Compress</b>
Energy cannot be created or destroyed	Momentum before equals momentum after ALWAYS	Kept the same	Speed that stays the same
<b>Conservation of energy</b>	<b>Conservation of momentum</b>	<b>Conserved</b>	<b>Constant speed</b>

Rate of decrease in speed (= change in speed/time)	Quantity that must be given as well as magnitude (size) with a vector quantity	Collision where kinetic energy is conserved	Energy stored in a stretched or compressed spring
<b>Deceleration</b>	<b>Direction</b>	<b>Elastic collision</b>	<b>Elastic potential energy</b>
A scalar physical quantity that is a property of objects which is conserved by nature. E.g. kinetic, electrical and sound	When an object is at rest or moving uniformly (Newton's first law)	How much a spring is extended (stretched or compressed) compared to its natural length	A push or pull in a particular direction
<b>Energy</b>	<b>Equilibrium</b>	<b>Extension of a spring</b>	<b>Force</b>
Terminal velocity - when the weight force and air resistance add to create no net force	A force that resists motion	Energy stored in a gravitational field when an object is moved vertically upwards	The maximum vertical displacement of a projectile (maximum point of the parabola)
<b>Free fall under gravity</b>	<b>Friction</b>	<b>Gravitational potential energy</b>	<b>Highest point</b>
A circle that involves no gain or loss in gravitational potential energy	Vector quantities can be separated into two components at $90^\circ$ to each other - horizontal and vertical	The range of a projectile (how far it travels horizontally before returning to the same vertical height).	Change in momentum (caused by an external force)
<b>Horizontal circle</b>	<b>Horizontal component</b>	<b>Horizontal distance</b>	<b>Impulse</b>

Collision where kinetic energy is not conserved (some energy is converted to sound or heat etc.)	At the start	Energy created by movement	Amount of matter an object has
<b>Inelastic collision</b>	<b>Initial</b>	<b>Kinetic energy</b>	<b>Mass</b>
Mass multiplied by velocity	Sum of all the forces acting on an object (sometimes called the "resultant" force)	Shape that a projectile follows	Point upon which an object turns or rotates
<b>Momentum</b>	<b>Net force</b>	<b>Parabola</b>	<b>Pivot</b>
Rate of doing work (= Energy change/time)	Parabolic motion of an object projected through the air	Distance from centre of circle to edge	Horizontal distance
<b>Power</b>	<b>Projectile motion</b>	<b>Radius</b>	<b>Range</b>
Force exerted by an object (e.g. the planet) caused by an equal and opposite force (e.g. your weight) - Newton's 3 <sup>rd</sup> law	How objects move in relation to each other	Stationary	Force required to extend or compress a spring by one metre
<b>Reaction</b>	<b>Relative motion</b>	<b>Rest</b>	<b>Spring constant</b>

Force exerted by an object (e.g. the planet) caused by an equal and opposite force (e.g. your weight) - Newton's 3rd law	Force in object that opposes them being stretched	Turning force (not applied through the centre of mass)	Two or more forces that do not cancel out
<b>Support force</b>	<b>Tension force</b>	<b>Torque</b>	<b>Unbalanced force</b>
Numerically add vectors by use of Pythagoras's theorem ( $c^2 = a^2 + b^2$ providing vectors are at right angles to each other) to calculate magnitude and direction	A vector (e.g. force) separated into vertical and horizontal components	Scale diagram to show magnitude and direction of vectors	Speed in a particular direction
<b>Vector addition</b>	<b>Vector components</b>	<b>Vector diagram</b>	<b>Velocity</b>
Vector quantities can be separated into two components at $90^\circ$ to each other - horizontal and vertical	= Mass (m) x acceleration due to gravity (g)	Process of transforming energy from one form to another	
<b>Vertical component</b>	<b>Weight</b>	<b>Work</b>	
			
 No Brain Too Small ● PHYSICS 