

# Forces Glossary

<b>air resistance:</b>	This force is also known as drag. It is the force that acts on objects as they fall through the air.
<b>area:</b>	The size of a surface.
<b>balanced force:</b>	This happens when two forces are of the same size but are acting in opposite directions.
<b>compression:</b>	The squashing of particles. Gases can be easily compressed because there are spaces between the particles.
<b>drag:</b>	A type of force which acts on an object that is moving through air or water.
<b>equilibrium:</b>	Balanced.
<b>extension:</b>	This is the increase in length when something like a spring or elastic band stretches.
<b>force:</b>	A push, pull or twist. Measured in newtons (N).
<b>friction:</b>	This occurs when two objects move past each other. Friction slows objects down.
<b>gravity:</b>	The force of gravity prevents everything from floating away from earth.
<b>Hooke's law:</b>	A law that states that if you double the force of an object, the extension will also double.
<b>lubrication:</b>	Oil is a good lubricator - it reduces the effect of friction.
<b>magnetic field:</b>	The area around a magnet.
<b>mass:</b>	The amount of stuff (matter) something is made of. Measured in kg.
<b>moment:</b>	This is a turning force.
<b>newton:</b>	Unit of force, symbol N.
<b>newton metre:</b>	An instrument used to measure the force acting on an object.
<b>parachute:</b>	Used when jumping out of an aeroplane to slow the fall down. The forces acting on a parachute are often used in exam questions.
<b>Pascals:</b>	The unit of pressure (Pa).
<b>pressure:</b>	How much force in a certain area. Equation: $\text{pressure} = \text{force} \div \text{area}$ .
<b>streamlined:</b>	Shaped to travel through air or water with as little resistance as possible.
<b>unbalanced:</b>	When two forces are acting on an object and one of the forces is greater than the other.
<b>water resistance:</b>	Acts on an object as it moves through water.
<b>weight: resistance:</b>	This is a force acting on an object's mass. Weight is measured in newtons (N).