

Forces

- **Force** – Pushes and pulls in a certain direction. A force can change the speed or shape of an object.



- **Contact force** – A force between two objects that are touching each other.



- **Friction** – The contact force between two surfaces that are touching each other.



- **Motion** – The process of an object moving in a certain direction.



- **Air resistance** – A type of friction between air and another object.



- **Drag** – Another word used as an alternative to air resistance.



- **Parachute** – An object that slows a skydiver down.



- **Streamline** – Having a shape that has little resistance to a flow of air or water.



- **Water resistance** – A type of force caused by friction slowing things down that are moving through a liquid. Water resistance occurs in all liquids, not just water.



- **Streamlined** – Having a shape that has little resistance to a flow of air or water.



- **Gravity** – An invisible force that pulls things to the centre of the Earth (or other planets).



- **Weight** – The pull of gravity on an object.



- **Non-contact force** – A force that does not require physical contact between two objects.



- **Lever** – A rigid bar resting on a pivot, used to move a heavy load.



- **Gear** – A wheel and axle that has teeth along the wheel, mostly used in machines to increase speed.



- **Pulley** – A rope or a cable on one or more wheels, used to lift heavy objects.



- **Machine** – A device that does a particular task. Some machines make moving or lifting things easier.

