

What should I already know?

A force can change the motion of an object. It can speed up or slow an object down.

Things move when they're pushed or pulled - these are forces.

Magnets produce a magnetic force. Two magnets will either attract or repel each other.

Air is a gas.

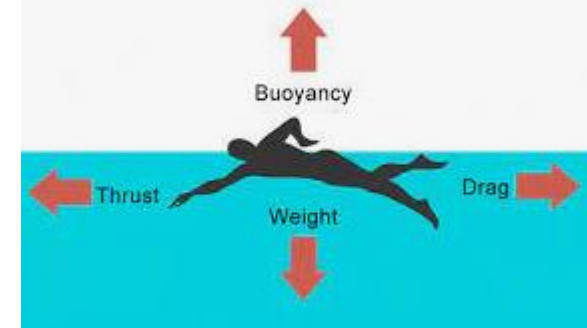
Key Vocabulary and definitions:

Gravity - the pulling force of attraction between two objects.

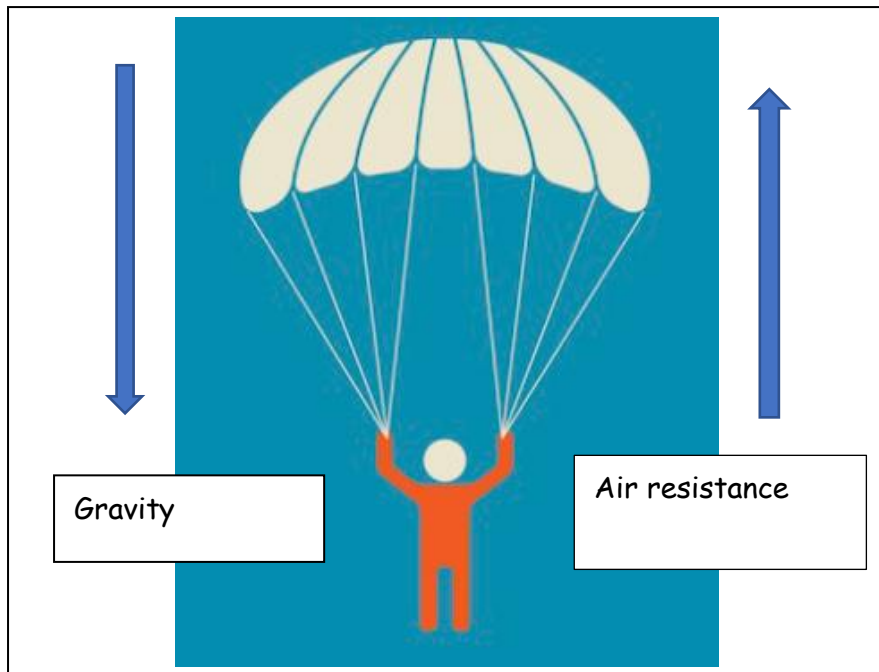
Newton meter - a piece of equipment that is used to measure the forces acting on an object. It is also known as a **spring balance** or **spring scale**

Resistance - the ability to withstand a force or effect

Friction - a force between two surfaces that are sliding, or trying to slide, across each other.



Water resistance is drag



Key knowledge:

- Unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.
- Air resistance, water resistance and friction, create effects that act between moving surfaces.
- Friction acts on movement causing an object to slow or stop moving.
- Mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.
- Forces can make things begin to move, slow down or speed up.