Year 5 Science – Forces

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.

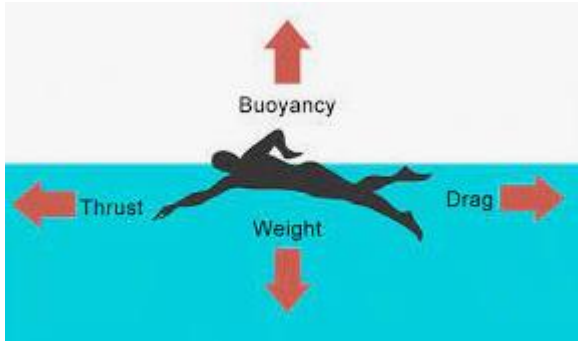
Key Vocabulary

Gravity – the pulling force of attraction between two objects.

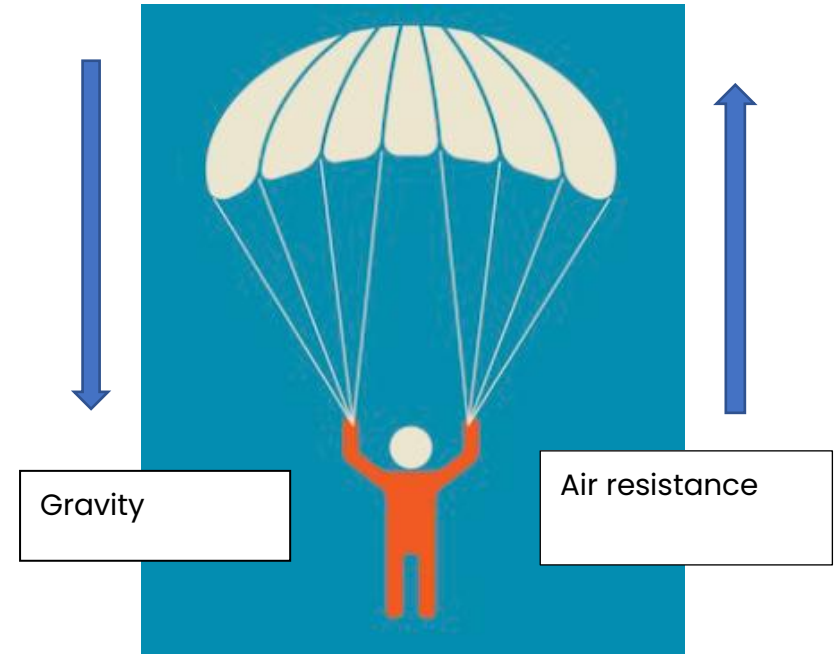
Newton meter – a piece of equipment that is used to measure the forces acting on an object. It is also known as **a spring balance or spring scale**

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 a type of friction force on an object moving through water.



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.