

# Year 5 - Term 3 - Forces

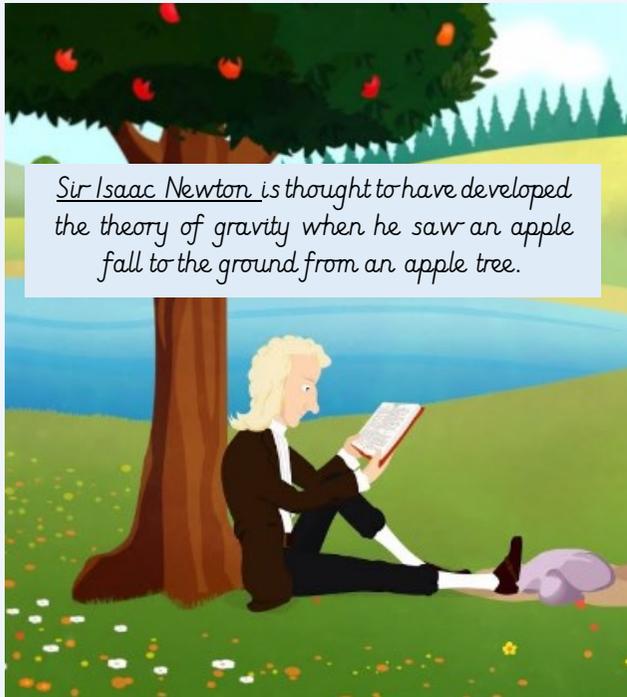
## What we already know.

In Year 3 you learnt about Magnets and Forces.

You will have explored different materials and whether they are magnetic or not, gaining knowledge on the strength of different types of magnets.

You already know how different surfaces can change the movement of an object and how their properties change the way items travel.

This knowledge will support your learning for our learning in Year 5!



Sir Isaac Newton is thought to have developed the theory of gravity when he saw an apple fall to the ground from an apple tree.

## Key vocabulary...

Gravity	A pulling force exerted by the Earth (or anything else which has mass).
Air resistance	A type of friction caused by air pushing against any moving object.
Water resistance	A type of friction caused by water pushing against any moving object.
Friction	A force that acts between two surfaces or objects that are moving, or trying to move, across each other.
Earth's gravitational pull	The pull that Earth exerts on an object, pulling it towards Earth's centre. It is the Earth's gravitational pull which keeps us on the ground.
Upthrust	A force that pushes objects up, usually in water.
Mass	A measure of how much matter (or 'stuff') is inside an object.

## What we will find out.

We will be learning about a variety of forces including gravity, air resistance, water resistance and friction.

We will investigate how gravity causes an unsupported object to fall towards the Earth and why.

Working scientifically, we will be learning how to measure using force meters and will use this knowledge in an investigation about friction.



When gravity and air resistance work together, they stop the sky divers falling to the ground at speed.

## What can forces do?

Forces can make an object...

- \* start to move,
- \* stop moving,
- \* change direction of movement,
- \* move faster,
- \* move slower,
- \* change its shape.