

How does this link to GROW?



O: To gain knowledge and skills about what forces are and how they can be useful.

Subject Specific Vocabulary

<u>gravity</u>	A force which draws objects towards the centre of a planet, or other body.
<u>air resistance</u>	Friction that happens between the air and another object.
<u>streamlined</u>	Shape or design of an object so that it travels through the air with as little air resistance as possible.
<u>water resistance</u>	Friction which acts on an object as it travels through water.
<u>upthrust</u>	Any force that is causing something to be pushed upwards.
<u>friction</u>	The resistance of motion when one objects rubs against another.

Key knowledge:



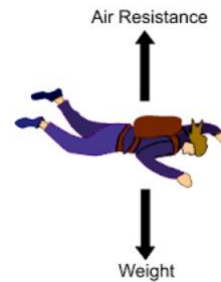
Sir Isaac Newton was born in 1643 at a time when the laws of nature were a mystery. He studied maths and physics and is perhaps best known for discovering gravity.

Friction is a force between two surfaces that are sliding, or trying to slide, across each other. For example, when you try to push a book along the floor, friction makes this difficult.



Friction always works in the direction opposite to the direction in which the object is moving or trying to move. Friction always slows a moving object down.

Air resistance is a type of friction between air and another material.



For example, when an aeroplane flies through the air, air particles hit the aeroplane making it more difficult for it to move through the air.

It's the same for an object moving through water. If you go swimming, there is friction between your skin and the water particles. This is known as water resistance.

Books you might like:



What I've learnt previously:

I have learned that if I apply force to move an object, it will change direction and move in the opposite direction from the force. I have also learnt how objects move differently depending on the surface it is on.

This will help me to:

Recognise and understand that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object and recognise the effects of different forces.