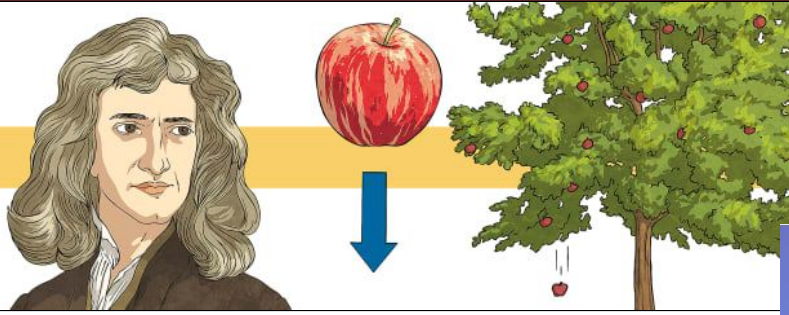


Science Unit 1: Let's Get Moving (Forces)

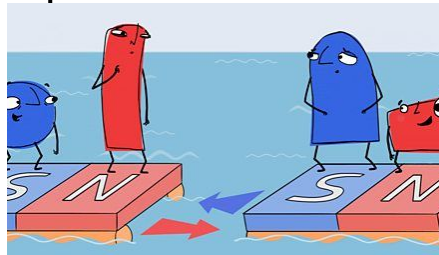
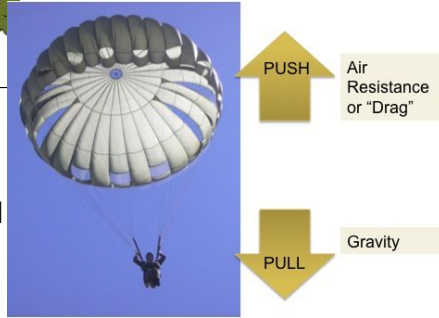


Overview

In this topic children learn about forces and machines. They start with the force of gravity then study friction forces, including air and water resistance, before investigating how simple machines work.

Key Points of Learning (RAG)

- Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.
- Identify the effects of air resistance, water resistance and friction, that act between moving surfaces.
- Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.
- Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.
- Report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results.



Useful Websites

[BBC Bitesize](#)

Key Vocabulary

Air resistance - the resistance of air to forward movement.

Force Meter - an instrument for measuring forces.

Friction - the force made when two objects rub against each other.

Gravity - the force that attracts a body towards the centre of the Earth.

Newton - the unit of force.

Magnetism - is an invisible force or field caused by the unique properties of certain materials.

Water Resistance - the resistance of water to forward movement.

Weight - the force with which something is attracted to the Earth.