

Y5 Autumn Science:

Forces

Enquiry question: How do forces affect my life?

Key Vocabulary

Force, gravity, Earth, air resistance, water resistance, friction, mechanisms, simple machines, levers, pulleys, gears.

Concepts

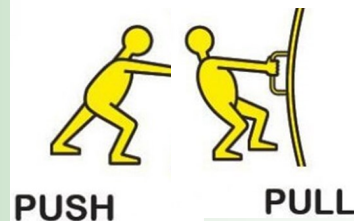
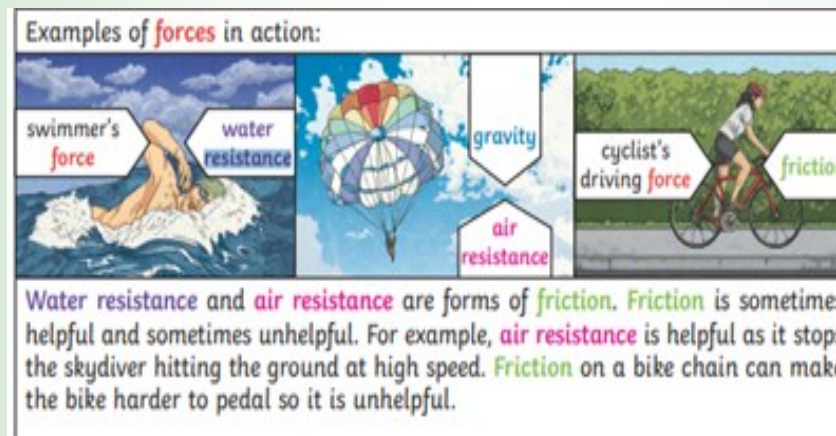
Forces and magnets



Scientific enquiry question:

Comparative Testing

How does the size/material of a parachute effect the amount of time it takes to fall?



Significant Individuals

Isaac Newton

Galileo

Archimedes

Core Knowledge

A force causes an object to start moving, stop moving, speed up, slow down or change direction. Gravity is a force that acts at a distance. Everything is pulled to the Earth by gravity. This causes unsupported objects to fall. Air resistance, water resistance and friction are contact forces that act between moving surfaces.

A mechanism is a device that allows a small force to be increased to a larger force. The pay back is that it requires a greater movement. The small force moves a long distance and the resulting large force moves a small distance, e.g. a crowbar or bottle top remover. Pulleys, levers and gears are all mechanisms, also known as simple machines.

