

Spring 2 - Forces

Key Learning:

- To explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.
- To identify the effects of air resistance that act between moving surfaces..
- To identify the effects of water resistance that act between moving surfaces.
- To identify the effects of friction that act between moving surfaces.
- To recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.

Key Knowledge

Examples of **forces** in action:



Water resistance and air resistance are forms of friction. Friction is sometimes helpful and sometimes unhelpful. For example, air resistance is helpful as it stops the skydiver hitting the ground at high speed. Friction on a bike chain can make the bike harder to pedal so it is unhelpful.

Vocabulary:

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