

What I Need to Know: Y5 Science - Forces

We nurture the curiosity to learn, the courage to lead and the compassion to care.

We are extending our knowledge of forces. By the end of this unit you will understand the impact of gravity, friction, air and water resistance.



Create, Communicate & Evaluate

- Plan an investigation to explore the effects of air or water resistance



Question, Reason, Discuss & Explain

- Recognise that some mechanisms, including levers, pulleys and gears allow a smaller force to have a greater effect
- Understand how gravity relates to Sir Isaac Newton's Laws of Motion



Know & Do

- Know that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object
- Identify the effect of air resistance, water resistance and friction which acts between moving surfaces

Vocabulary I need to know...

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

Opportunities to support English and maths

- Skim and scan texts to retrieve information or quotes quickly and accurately
- Summarise main ideas from more than one paragraph
- Make and justify inferences with appropriate evidence from the text
- Provide reasoned justifications for their views, quoting evidence from across a text

Curriculum Links and Enrichment Activities

- DT – levers and pulleys