

# Forces

## Year 5



Think deeply about...

Life with or without gravity?  
Which is the 'best' force? Why?  
Which force could you live without?

Learn...

Identify forces.  
Explain effect of gravity.  
Explain air resistance.  
Explain water resistance.  
Acknowledge link between surface area and speed of fall.  
Identify variables.  
Evaluate success of an experiment, work scientifically.  
Investigate what friction is.  
Investigate how levers work.  
How scientists such as Sir Isaac Newton helped us understand gravity.

Use...

Force- strength or energy as an attribute of physical action or movement.  
Gravity- the force that attracts a body towards the centre of the earth, or towards any other physical body having mass.  
Resistance- the impeding or stopping effect exerted by one material thing on another.  
Up thrust- the upward force that a liquid or gas exerts on a body floating in it.  
Friction- the resistance that one surface or object encounters when moving over another.  
Variable- not consistent or having a fixed pattern; liable to change.  
Prediction- a thing predicted; a forecast.



Explore...

Make paper aeroplanes using different designs, to race at school.  
Forces and Motions Videos and explanations- <https://www.bbc.com/bitesize/topics/znmn39>  
Forces video- <https://www.bbc.com/bitesize/clips/zch4wx>  
Quiz on forces- <https://www.educationquizzes.com/ks2/science/forces-01/>  
Sir Isaac Newton biography- [https://www.ducksters.com/biography/scientists/isaac\\_newton.php](https://www.ducksters.com/biography/scientists/isaac_newton.php)