



# Mickleover Primary School – Science Knowledge Organiser

Title: Forces

Year Group: 5

Term: Autumn 2

## Vocabulary you will know...

|                  |            |
|------------------|------------|
| force            | upthrust   |
| friction         | forcemeter |
| gravity          | mechanism  |
| balanced         | gears      |
| resistance       | pulley     |
| air resistance   | lever      |
| water resistance |            |
| streamlined      |            |

## Key Learning

- I know we cannot see forces – just their effect on something.
- I know that gravity causes objects to have weight.
- I know that weight is a force and we measure it in Newtons.
- I know that gravity is less on the moon.
- I know when an object is submerged in water, the water provides an upward force.
- I know air resistance slows things down.
- That water resistance slows an object moving through water.
- Can relate friction to everyday contexts and explain why it is important for the friction to be high or low
- To recognize that some mechanisms (including levers, pulleys and gears) allow a smaller force to have a greater effect

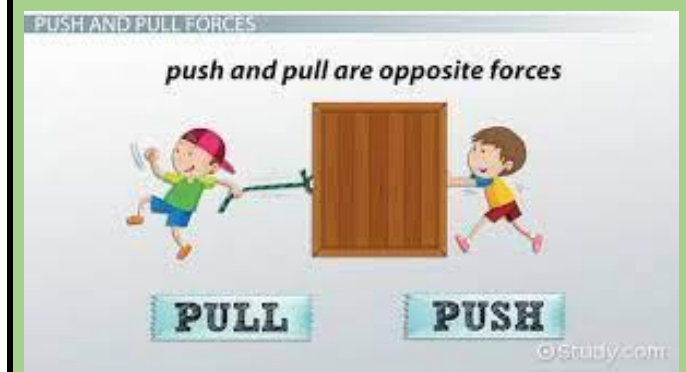
## Famous People

**Isaac Newton** – discovered gravity whilst sitting under a tree!

**Galileo** – discovered the pull of gravity on an object is the same, regardless of their different weights.

**Question:** What does all this have to do with jelly and chopsticks?

**Push, pull, stretch, squeeze, catch and twist are ways of describing forces**



MOTIVATED

PROUD

SUCCESSFUL