



Mickleover Primary School – Science Knowledge Organiser

Title: Forces and Friction

Year Group: 5

Term: Autumn 2

Vocabulary you will know...

force	water resistance
friction	force meter
gravity	mechanism
balanced force	gears
unbalanced force	pulley
air resistance	lever
weight	newton
streamlined	mass

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 air resistance slows things down.
- That water resistance slows an object moving through water.
- I can relate friction to everyday contexts and explain why it is important for the friction to be high or low
- I can recognise that some mechanisms (including levers, pulleys and gears) allow a smaller force to have a greater effect

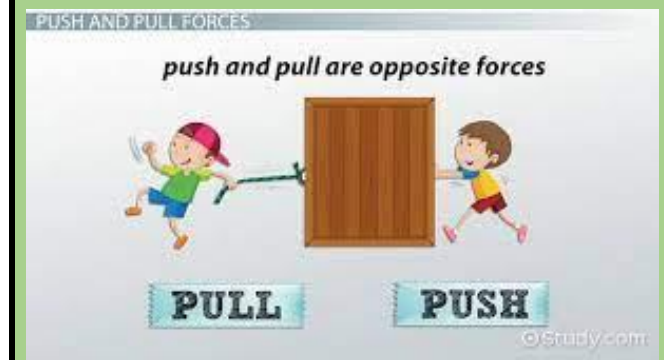
Famous People

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