

Forces – Year 5 - Summer Term

Key Knowledge

Forces

What is a force?	A force is either a push or a pull
Forces can make things...	- Speed up - Slow down - Change shape - Change direction
A force that speeds something up	The child is pushing the car to speed up.
A force that slows something down	he girl is pulling the dog to slow it down
A force that changes the shape of something	The can is being squeezed so that it changes shape and becomes flatter.
A force that changes direction of something	When the ball is hit with the racket, it will change direction.



Key Vocabulary

Definition

Streamlined	A shape that presents least resistance to air and or water.
Surface	The top layer of something
Grip	To have a good connection with a surface
Drag	To cause to slow down
Centre	The middle

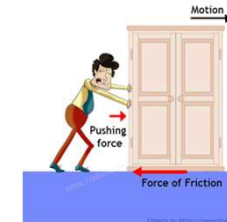
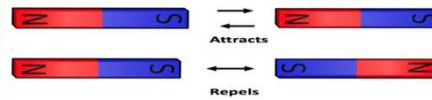
Useful websites

<https://www.activelearnprimary.co.uk/resource/47143>

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Types of force

Magnetism	Attract Repel
Magnets attract or repel each other or other objects	North and South attract. But North and North or South and South will repel
Air Resistance	- Air resistance slows down moving objects, because air slows you down as you move through it - To travel faster through the air, things need to be streamlined.
Water Resistance	- Water resistance slows down moving objects, because water slows you down as you move through it. - To travel faster through water, things need to be streamlined.
Friction	- Friction happens when two surfaces touch each other - Friction gives us grip - Friction produces heat - Rougher surfaces slow things down a lot. - Smoother surfaces doesn't slow things down as much
What is gravity?	Gravity is the forces that pulls objects down towards the centre of Earth. Gravity stops things from floating away into space When things go into the air (like a football) gravity pulls the back down.



Air
Resistance



Water
Resistance



Gravity pulls us
towards the centre of
the Earth