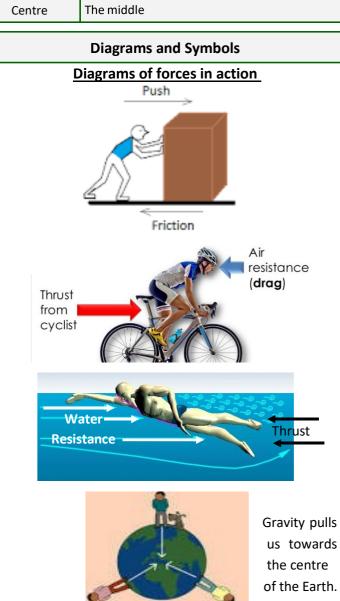
Science Focus: Forces Year 5 Autumn 2

What? (Key Knowledge)							
Forces							
A force is either:							
What is a force?	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 it up.						
A force that slows something down	The girls 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 smaller.						
A force that changes the direction of something	When the ball is hit with the racket, it will change direction.						
Types of force							
	Types of force						
Magnetism	Types of force Attract:						
Magnetism Magnets attract or repel each other or other objects							
Magnets attract or repel each other or	Attract: Repel: North and South attract. But North and						
Magnets attract or repel each other or other objects	Attract: Repel: North and South attract. But North and North or South and South will repel. • Air resistance slows down moving objects, because air slows you down as you move through it • To travel faster through the air, things						
Magnets attract or repel each other or other objects Air Resistance	Attract: Repel: North and South attract. But North and North or South and South will repel. • 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 slows down moving objects, because water slows you down as you move through it • To travel faster through the water,						
Magnets attract or repel each other or other objects Air Resistance Water Resistance Friction	Attract: Repel: North and South attract. But North and North or South and South will repel. • 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 slows down moving objects, because water slows you down as you move through it • To travel faster through the water, things need to be streamlined. • Friction happens when two surfaces touch each other. • Friction gives us grip. • Friction produces heat. • Rougher surfaces slow things down a lot. • Smoother surfaces don't slow things down as much.						
Magnets attract or repel each other or other objects Air Resistance Water Resistance Friction	Attract: Repel: North and South attract. But North and North or South and South will repel. • 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 slows down moving objects, because water slows you down as you move through it • To travel faster through the water, things need to be streamlined. • Friction happens when two surfaces touch each other. • Friction gives us grip. • Friction produces heat. • Rougher surfaces slow things down a lot. • Smoother surfaces don't slow things down as much. ravity (another force) Gravity is the force that pulls objects						
Magnets attract or repel each other or other objects Air Resistance Water Resistance Friction	Attract: Repel: North and South attract. But North and North or South and South will repel. • 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 slows down moving objects, because water slows you down as you move through it • To travel faster through the water, things need to be streamlined. • Friction happens when two surfaces touch each other. • Friction gives us grip. • Friction produces heat. • Rougher surfaces slow things down a lot. • Smoother surfaces don't slow things down as much.						

What? (Key Vocabulary)				
Spelling	Definition/Sentence			
Streamlined	A shape that presents least resistance to air 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			



Prior Knowledge

- Compare how things move across different surfaces.
- Magnets attract and repel.
- Notice how some forces need contact between 2 objects whilst magnets can act without direct contact.
- Make predictions based on forces and magnets.