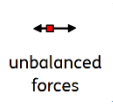
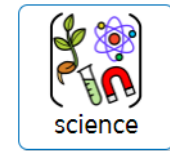




Year 5 Forces and space



Prior learning: They know what a force is and be able to explain that a push and pull are types of forces. They know when forces are applied to an object they allow them to move or stop moving and that the strength of the force determines how far and fast an object moves. They know Friction is the resistance of motion when there is contact between two surfaces and that the force that causes objects to move downwards towards the ground is gravity.

What we are learning

Lesson 1: (K) To describe gravity and its effects. (WS) To analyse data to write a conclusion.	Lesson 2: (K) To describe air resistance and its effects. (WS) To plan a fair test to investigate air resistance.	Lesson 3: (K) To describe water resistance and its effects (WS) To design a results table.	Lesson 4: (K) To describe friction and its effects (WS) To evaluate a method.	Lesson 5: (K) To describe the effects of levers, pulleys and simple machines on movement. (WS) To draw a label a diagram.	Lesson 6: (K) To describe the relationship between lever length and effort. (WS) To draw an accurate line graph.
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Key vocabulary

gravity	A force that pulls things towards each other.	
mass	The amount of matter contained in an object.	
air resistance	The force that slows things down when they move through air.	
water resistance	The force that slows things down when they move through water.	
friction	A force between two surfaces in contact that opposes motion.	

A pulley is a wheel with a groove around it for a rope, making it easier to lift heavy things by pulling down on the rope.

A gear is a wheel with teeth that fits into another gear to change the speed or direction of movement.

A lever is a stiff bar that moves around a pivot to lift a load more easily.

Scientists to explore

Archimedes/ Newton/ Albert Einstein