Year 5:

Forces

Key Learning

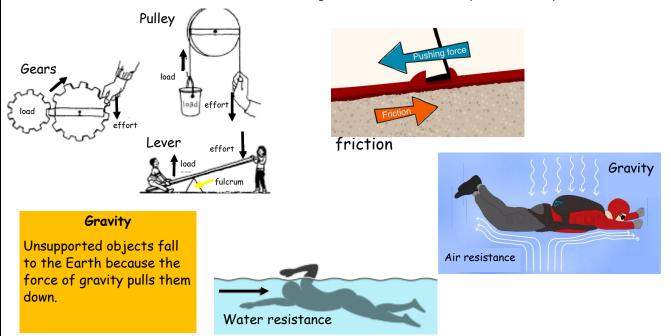
A force causes an object to start moving, stop moving, speed up, slow down or change direction.

A mechanism is a device that allows a small force to be increased to a larger force.

Pulleys - used to reduce the amount of force needed to lift a load. The more wheels in a pulley, the less force is needed to lift the weight.

Gears - used to change, direction or force of a motion. When 2 gears are connected they always turn in the opposite direction to each other.

Levers - can be used to make a small force lift a lighter load. A lever always rests on a pivot.



Key Vocabulary	
gravity	The force that pulls things to the ground on Earth (and other planets).
Resistance (air or water)	A type of friction caused by air and water pushing against any moving objects. We call this air resistance or water resistance.
friction	A force that acts between two surfaces or objects that are moving, or trying to move, across each other.
mechanism	Parts which work together in a machine. Examples of mechanisms are levers, pulleys and gears.
lever	A bar that is pushed or pulled to lift something heavy, force something heavy , force something open, or make a machine work.
pulley	A wheel with a groove round it to take a rope, used for heavy lifting.
gear	A set of toothed wheels working together in a machine.