Knowledge Organiser - Science (physics) - Year 5 Forces - Can you feel the force?

STICKY KNOWLEDGE

 Gravity is a force which draws objects towards the centre of a planet or other body and was discovered by Sir Isaac Newton 	• Air resistance is a type of friction between air and another material		 Friction is the resistance of motion when one object rubs against another
• Water resistance is a type of friction which acts on an object as it moves through water	use o force	rs and pulleys a range of es to create ement	• Gears are toothed wheels which mesh together to create interconnecting motion when they turn
KEY VOCABULARY			
Air Resistance		A force that is caused by air with the force acting in the opposite direction to an object moving through the air	
Friction		The resistance that one surface or object encounters when moving over another	
Gravity		The force that attracts a body towards the center of the earth	
Upthrust		The upward force that a liquid or gas exerts on a body floating in it.	
Water Resistance		force acting i	is caused by water with the n the opposite direction to ing through the water
Newton		The unit of measured in	easurement force is

Forces in Action



Key Scientist: Sir Isaac Newton



Sir Isaac Newton developed his theory of gravity.

Mechanisms

A wheel over which a belt, rope, or chain is pulled to lift or lower a heavy object.

A bar that rotates around a point. They make it easier to lift a heavy load.

Wheels that mesh together, they rotate in opposite directions.

