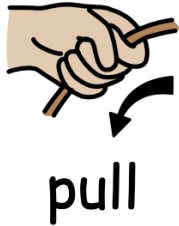




push



pull

Forces Knowledge Organiser

attract - to pull towards

contact - when objects touch

distance - the length between two objects

force - a push or pull that acts upon an object that can cause it to move, change shape or change direction

friction - the force that acts upon one surface when it moves against another

gravity - a pull force that acts at a distance

pull - to move something towards

push - to move something away

repel - to push away

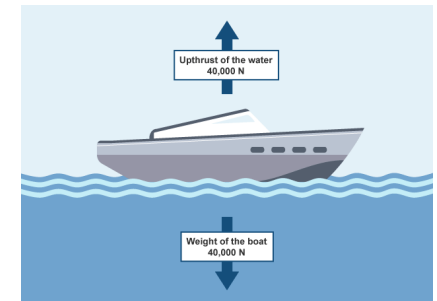
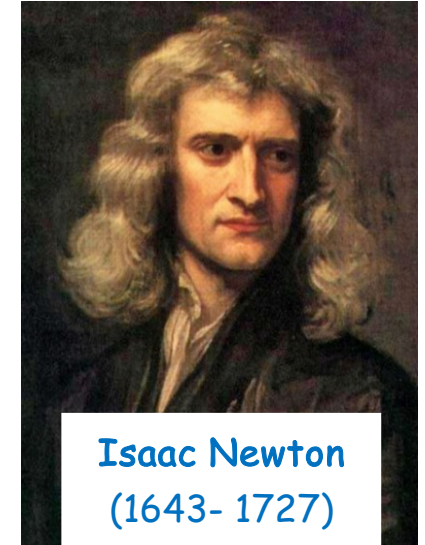
balanced forces - equal forces that cause an object to remain stationary or travel at the same continuous speed

weight - the downward force caused by gravity on an object (measured in Newtons (N))

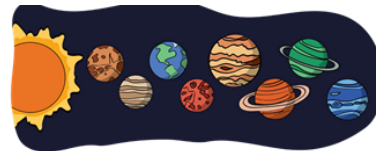
mass - how much matter there is in an object (measured in g or kg)

mechanism - a system of parts working together in a machine

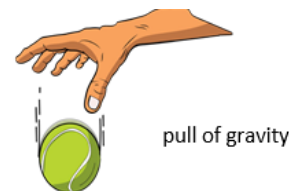
pulley - a wheel that carries a flexible rope, cord, cable, chain, or belt on its rim



The planets and the Sun do not touch, yet the **planets stay in orbit** around the Sun due to the force of gravity.



Gravity is a force which **acts at a distance**. It is a **pull force** that pulls objects towards the centre of the Earth.



Water resistance is the force responsible for making it difficult for us to **move through the water**. It acts between a moving object and the **water molecules** around it, **slowing the object down**.

