



Forces - Year 5

KNOWLEDGE ORGANISER



ESSENTIAL SCIENCE VOCABULARY	
Gravity	A pulling force exerted by the Earth or anything else which has mass .
Air resistance	A type of friction caused by air pushing against any moving object.
Water resistance	A type of friction caused by water pushing against any moving object.
Earth's gravitational pull	The pull that Earth exerts on an object, pulling it towards Earth's centre. It is the Earth's gravitational pull which keeps us on the ground.
Friction	A force that acts between two surfaces or objects that are moving or trying to move across each other.
Up thrust	A force that pushes objects, usually in water.

MAKING LINKS TO NEW LEARNING. What will we know?

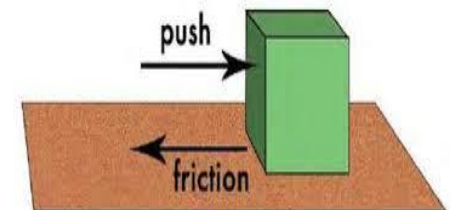
- We will be learning about a variety of forces including gravity, air resistance and friction.
- We will investigate how gravity causes an unsupported object to fall towards the Earth and why.
- Working scientifically, we will be learning how to measure using force meters and will use this knowledge in an investigation about friction.



Sir Isaac Newton developed the theory of gravity when he saw an apple fall to the ground from a tree.

MAKING LINKS TO PREVIOUS LEARNING. What should we already know?

- Magnets and Forces.
- Exploring different materials and whether they are magnetic or not.
- Know how the surfaces can change the movement of an object and how their properties change.



WHAT CAN FORCES DO?

- Forces can make an object...
- Start to move
 - Stop moving
 - Change direction of movement
 - Move faster
 - Move slower
 - Change its shape

