



Summer 1

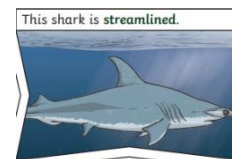
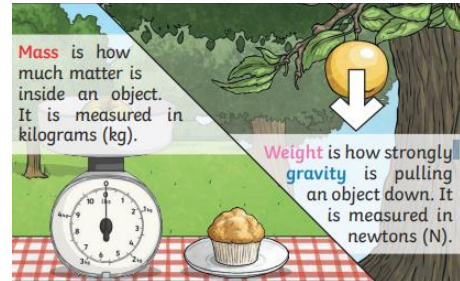
Name of Topic Forces

Year Group

5

Key Vocabulary and Spellings

1	newton	a unit of force (N)
2	air resistance	is a type of friction between air and another material.
3	water resistance	A type of friction between water and another material
4	gravity	a force that makes things to move towards each other.
5	friction	a resistance that one surface or object encounters when moving over another
6	balanced	are two forces acting in opposite directions on an object, and equal in size.
7	fulcrum	the point against which a lever is placed to get a purchase, or on which it turns or is supported.
8	upthrust	An upward force on an object
9	force	a push or pull on an object.
10	mechanisms	A systems of parts work together in a machine



Key Investigations

1	Explore the effect of gravity by making craters.
2	Design and make and test your own spinner.
2	Drop different shaped plasticine into a cylinder of water.
3	Create your own lever or pulley.

Top 5 Topic Facts

1	Objects fall towards the Earth because of a force known as Gravity.
2	Mass and weight are not the same thing.
3	Anytime there is a balanced force on an object, the object stays still or continues moving continues to move at the same speed and in the same direction.
4	Galileo identified that if there was no air resistance then all things would hit the ground at the same time.
5	Levers, pulleys and gears are simple machines, or mechanisms.

Key Questions of Enquiry

1	What are the different types of forces?
2	What is the link between the mass of an object and the amount of force with which gravity acts on it?
3	Do levers and pulleys allow a small force to have a greater effect?



St Paul's C of E School – Knowledge Organiser