



St Paul's C of E Primary School – Knowledge Organiser

Name of Topic

Forces in Action

Year Group

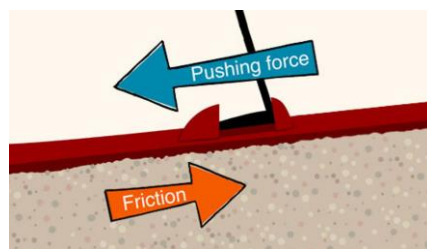
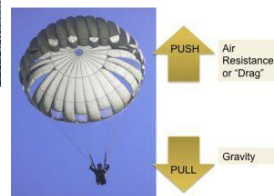
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Key Vocabulary and Spellings

1	gravity	The force that pulls things to the centre of Earth (and other planets.)
2	friction	A force between 2 surfaces that are sliding, or trying to slide, across each other
3	Air resistance	A friction force that occurs between air and another object.
4	Water resistance	A friction force that slows things down in water, sometimes called drag.
5	streamlined	An object that is shaped to travel through air or water with as little resistance as possible.
6	forcemeter	A piece of equipment used to measure the forces acting on an object. Also known as a Newtonmeter or spring balance.
7	variables	An element of a test that can be changed, sometimes called factors.
8	analyse	To study closely, examine and explain.
9	Upthrust	An upward force.
10	force	A push or a pull that can move an object, speed up, slow down or change the direction of something.

Top 5 Topic Facts

1	1 Newton is equal to approx. 100g in weight.
2	Leonardo da Vinci was the first person to study friction systematically, over 500 years ago.
3	Friction can generate static electricity
4	When forces are unbalanced an object will move, change direction, speed up or slow down.
5	The Black Marlin- the fastest fish, can reach a maximum speed: 129km/h, due to its streamlined body.



Key Investigations/Questions

1	How can we modify surfaces to reduce and increase friction?
2	Which shapes create the least water resistance?
3	What variables can be changed to create the most effective parachute?