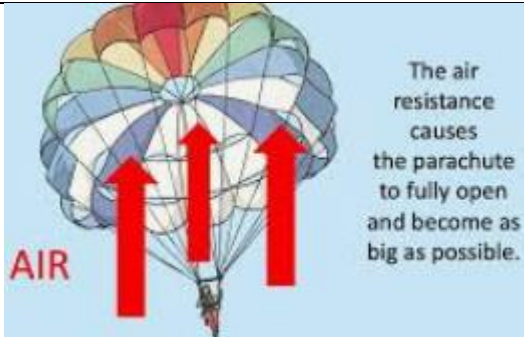


Year 5 Forces - Levers and Pulleys

What is friction?

Friction is a force that works against a force. It resists the moving of one object over another. It can be helpful and unhelpful! Friction on car tyres can stop a tyre from skidding on a wet road.

Air resistance



Air resistance will push against an object falling to the ground.

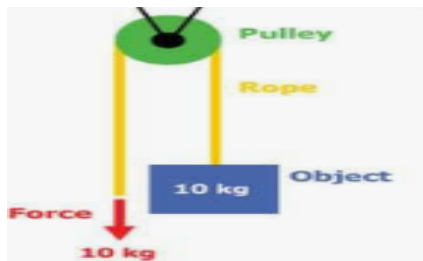
Water resistance



Water resistance will work against an object moving through water.

friction	A force that acts between two surfaces or objects that are moving, or trying to move, across each other.
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.
buoyancy	An object is buoyant if it floats. This is because the weight of the object is equal to the up thrust.
streamlined	When an object is shaped to minimise the effects of air or water resistance.
mechanism	Mechanisms are simple machines with moving parts that change input forces and movement into a set of useful output forces. Examples of mechanisms are pulleys, gears and levers.
upthrust	A force that pushes up

Pulleys - small force lifts a heavy load. The more wheels, the less force is needed.



Gears - used to change the force, speed or direction of a movement.



Levers - a small force can lift a big load. A lever rests on a pivot / fulcrum.

