

Mechanism – System of parts working together in a machine.

Balanced Forces – Forces in opposite direction are equal.
Unbalanced Forces – Forces in opposite direction are not equal.

Gravity – a force pulling an object towards the centre of the Earth.



Weight – The force put on the mass of an object by gravity
Mass – The quantity of matter which a body contains

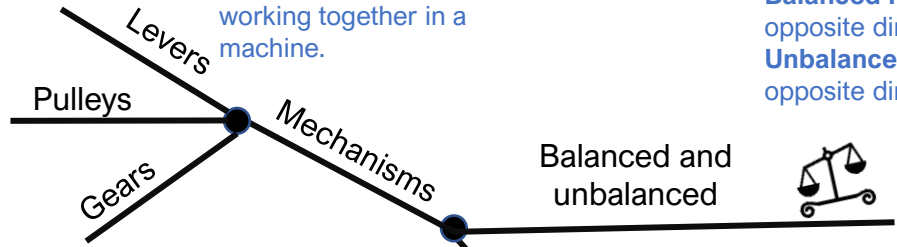
Air Resistance – Forces that are against the motion of an object as it passes through the air.



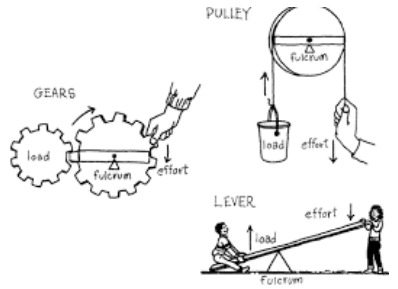
Tower of Pisa Experiment

Streamlined – designed to have very little resistance to the flow of air or water.

Water Resistance - Forces that are against the motion of an object as it passes through water.

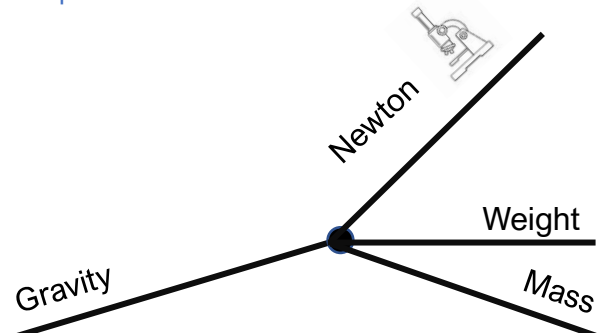
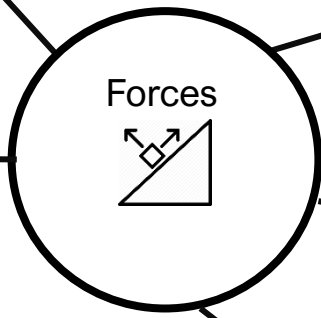


Force – something that changes the motion of an object.



Friction – the resistance that an object has when moving over a surface.

Friction



Air resistance

Streamlined

Water resistance

Streamlined

Questions to think about...

What is a force?

How does force act on an object?

How can we measure forces?

How can we see forces?