

What is a force?

 A force is a push or a pull that can change the shape of an object, or change the way that it moves.



Types of forces

- Gravitational force(weight)
- Electrostatic force
- Magnetic force
- Friction
- Drag (Air resistance, Water resistance)

Pushing Force

- Upthrust
- Thrust
- Tension



Drag

Lift

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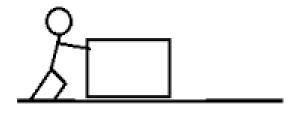


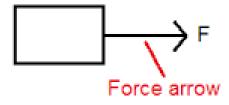




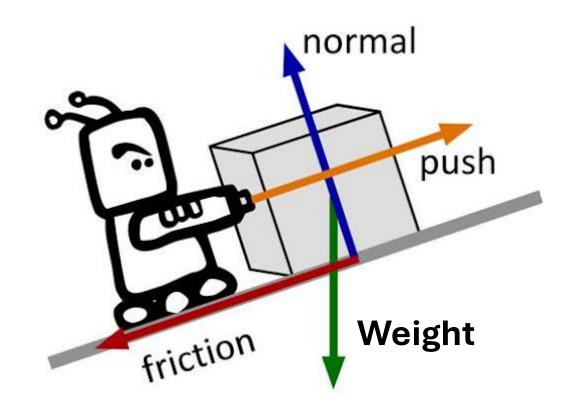


Force arrows





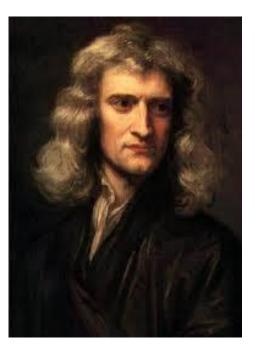
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- The length of the arrow shows the size of the force.
- The direction of the arrow shows the direction of the force.

Newton

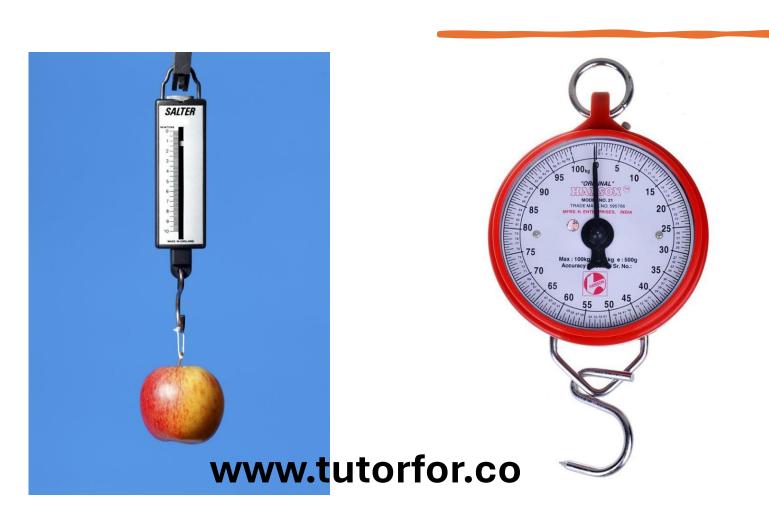
• The size of a force is measured by the unit called newton(N).



In physics, force is measured in newtons, named after Sir Isaac Newton, who formulated the laws of motion and universal gravitation.



Measuring forces



A device for measuring force is called a forcemeter, such as a spring balance.