

- Mass** -- Amount of substance/matter in a body.
  - \* Mass ~~rests~~ changes unless object is broken into pieces.
- Inertia** -- Property of a body that resists change in its state of motion.
  - \* Is not a physical quantity.
  - Inertia  $\propto$  mass
  - \* Mass is sometimes referred as inertia.

- What is meant by the mass of an object?
- the property of the object that resists a change in motion
  - the pull of the Earth on the object
  - the total number of atoms in the object
  - the weight of the object

**Weight** -- Total amount of gravitational force acting on an object.

Weight  $\rightarrow$   $W = m \times g$   $\rightarrow$  Gravitational Field Strength  
 (Gravitational force acting/unit mass)

mass  
 $g = 9.81 \text{ N/kg}$

\* Weight can change if **gravitational field strength is changed** (when body is moved to another planet)

The gravitational field strength on the surface of planet P is one tenth of that on the surface of planet Q.

On the surface of P, a body has a **mass of 1 kg** and a **weight of 1 N**.  $3g = \frac{1}{10} = 3g$

What are the mass and weight of the same body on the surface of planet Q?

mass on Q/kg	weight on Q/N
1.0	0.1
1.0	1.0
10	1.0
10	100

$W_p = m \times g$   
 $1 = 1 \times 1$   
 $3g = 1 = \frac{1}{10}$

$W_Q = m \times g$   
 $10g = 1 \times 0.1$   
 $0.1 \text{ N}$

**Force** -- An external agent when applied on an object is capable of changing the state of motion of the object. (This not definition is not valid in A level)

A force can cause a body to --

- 1) accelerate
- 2) Decelerate
- 3) Deform

Resultant force  $\rightarrow$   $R.F = m \times a$   $\rightarrow$  acceleration

units -- Newton (N)  
 SI base unit --  $\text{kgms}^{-2}$

**Resultant/Net Force** -- Vector sum of all the forces acting on an object.

\* Resultant force and acceleration act in the same direction.

A car of mass 750 kg has a horizontal driving force of 2000 N acting on it. It has a **backward resistance of 1500 N**.

$2000 - F_R = 750 \times 2$   
 $2000 - F_R = 1500$   
 $F_R = 500 \text{ N} = 0.5 \text{ kN}$

What is the resistive force acting horizontally?

A. 0.5 kN     B. 1.5 kN     C. 2.0 kN     D. 3.5 kN

# A Levels Physics Notes

**WJ Hussar**



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