

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?
- (A) the property of the object that resists a change in motion
 - (B) the pull of the Earth on the object
 - (C) the total number of atoms in the object
 - (D) 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

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

$W_q = m \times g$
 $10 = 1 \times 10$
 0.1 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
 motion

units -- Newton (N)
 SI base unit -- 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

Great Britain. Ministry of Defence



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Note-book Sheets for Laboratory Work in Physics George M. Turner, C. Brooks Hersey, 1906 *New Scientist*, 1969

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