

- 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**.  
 $3g = \frac{1}{10} \times 3g$

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

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

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

**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  
 motion

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**.

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

Forward - Resistive force =  $m \times a$

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

**Minjie Lin**



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## **Table of Contents A Levels Physics Notes**

1. Understanding the eBook A Levels Physics Notes
  - The Rise of Digital Reading A Levels Physics Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying A Levels Physics Notes
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an A Levels Physics Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from A Levels Physics Notes
  - Personalized Recommendations
  - A Levels Physics Notes User Reviews and Ratings
  - A Levels Physics Notes and Bestseller Lists
5. Accessing A Levels Physics Notes Free and Paid eBooks
  - A Levels Physics Notes Public Domain eBooks
  - A Levels Physics Notes eBook Subscription Services
  - A Levels Physics Notes Budget-Friendly Options

6. Navigating A Levels Physics Notes eBook Formats
  - ePub, PDF, MOBI, and More
  - A Levels Physics Notes Compatibility with Devices
  - A Levels Physics Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of A Levels Physics Notes
  - Highlighting and Note-Taking A Levels Physics Notes
  - Interactive Elements A Levels Physics Notes
8. Staying Engaged with A Levels Physics Notes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers A Levels Physics Notes
9. Balancing eBooks and Physical Books A Levels Physics Notes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection A Levels Physics Notes
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine A Levels Physics Notes
  - Setting Reading Goals A Levels Physics Notes
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of A Levels Physics Notes
  - Fact-Checking eBook Content of A Levels Physics Notes
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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