

# PHYSICS GRADE 10

## CHAPTER ONE LINEAR MOTION

### Introduction

Study of motion is divided into two;

1. Kinematics
2. Dynamics

In kinematics forces causing motion are disregarded while dynamics deals with motion of objects and the forces causing them.

### I. Displacement

*Distance moved by a body in a specified direction is called displacement.* It is denoted by letter 's' and has both magnitude and direction. Distance is the movement from one point to another. The SI unit for displacement is the metre (m).

### II. Speed

*This is the distance covered per unit time.*

**Speed = distance covered / time taken.** Distance is a scalar quantity since it has magnitude only. The SI unit for speed is metres per second (m/s or  $\text{ms}^{-1}$ )

**Average speed = total distance covered / total time taken**

Other units for speed used are Km/h.

Examples

1. A body covers a distance of 10m in 4 seconds. It rests for 10 seconds and finally covers a distance of 50m in 60 seconds. Calculate the average speed.

*Solution*

Total distance covered =  $10 + 50 = 100\text{m}$

Total time taken =  $4 + 10 + 6 = 20$  seconds

Therefore average speed =  $100 / 20 = 5\text{m/s}$

2. Calculate the distance in metres covered by a body moving with a uniform speed of 180 km/h in 30 seconds.

*Solution*

Distance covered = speed \* time

$$= 180 * 1000 / 60 * 60 = 50\text{m/s}$$

$$= 50 * 30$$

$$= 1,500\text{m}$$

3. Calculate the time in seconds taken a by body moving with a uniform speed of 360km/h to cover a distance of 3,000 km?

*Solution*

Speed:  $360 \text{ km/h} = 360 * 1000 / 60 * 60 = 100\text{m/s}$

Time = distance / speed

$$3000 * 1000 / 100$$

$$= 30,000 \text{ seconds.}$$

### III. Velocity

*This is the change of displacement per unit time.* It is a vector quantity.

**Velocity = change in displacement / total time taken**

The SI units for velocity are m/s

Examples

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**Xiang Xie**



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### **Table of Contents Physical Science Grade10 September 2013**

1. Understanding the eBook Physical Science Grade10 September 2013
  - The Rise of Digital Reading Physical Science Grade10 September 2013
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Grade10 September 2013
  - 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 Physical Science Grade10 September 2013
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Grade10 September 2013
  - Personalized Recommendations

- 
- Physical Science Grade10 September 2013 User Reviews and Ratings
  - Physical Science Grade10 September 2013 and Bestseller Lists
5. Accessing Physical Science Grade10 September 2013 Free and Paid eBooks
    - Physical Science Grade10 September 2013 Public Domain eBooks
    - Physical Science Grade10 September 2013 eBook Subscription Services
    - Physical Science Grade10 September 2013 Budget-Friendly Options
  6. Navigating Physical Science Grade10 September 2013 eBook Formats
    - ePub, PDF, MOBI, and More
    - Physical Science Grade10 September 2013 Compatibility with Devices
    - Physical Science Grade10 September 2013 Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Physical Science Grade10 September 2013
    - Highlighting and Note-Taking Physical Science Grade10 September 2013
    - Interactive Elements Physical Science Grade10 September 2013
  8. Staying Engaged with Physical Science Grade10 September 2013
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Physical Science Grade10 September 2013
  9. Balancing eBooks and Physical Books Physical Science Grade10 September 2013
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Physical Science Grade10 September 2013
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Physical Science Grade10 September 2013
    - Setting Reading Goals Physical Science Grade10 September 2013
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Physical Science Grade10 September 2013
    - Fact-Checking eBook Content of Physical Science Grade10 September 2013

- 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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