

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 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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Table of Contents Grade10 Physical Science P1 Let2014

1. Understanding the eBook Grade10 Physical Science P1 Let2014
 - The Rise of Digital Reading Grade10 Physical Science P1 Let2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade10 Physical Science P1 Let2014
 - 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 Grade10 Physical Science P1 Let2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade10 Physical Science P1 Let2014
 - Personalized Recommendations
 - Grade10 Physical Science P1 Let2014 User Reviews and Ratings
 - Grade10 Physical Science P1 Let2014 and Bestseller Lists
5. Accessing Grade10 Physical Science P1 Let2014 Free and Paid eBooks
 - Grade10 Physical Science P1 Let2014 Public Domain eBooks
 - Grade10 Physical Science P1 Let2014 eBook Subscription Services
 - Grade10 Physical Science P1 Let2014 Budget-Friendly Options
6. Navigating Grade10 Physical Science P1 Let2014 eBook Formats

- ePub, PDF, MOBI, and More
 - Grade10 Physical Science P1 Let2014 Compatibility with Devices
 - Grade10 Physical Science P1 Let2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade10 Physical Science P1 Let2014
 - Highlighting and Note-Taking Grade10 Physical Science P1 Let2014
 - Interactive Elements Grade10 Physical Science P1 Let2014
 8. Staying Engaged with Grade10 Physical Science P1 Let2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade10 Physical Science P1 Let2014
 9. Balancing eBooks and Physical Books Grade10 Physical Science P1 Let2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade10 Physical Science P1 Let2014
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Grade10 Physical Science P1 Let2014
 - Setting Reading Goals Grade10 Physical Science P1 Let2014
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Grade10 Physical Science P1 Let2014
 - Fact-Checking eBook Content of Grade10 Physical Science P1 Let2014
 - 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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