

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.

A. Displacement

Distance covered 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).

B. 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 20m in 4 seconds, it rests for 10 seconds and finally covers a distance of 50m in 10 seconds. Calculate the average speed.

Solution

Total distance covered = 20 + 50 = 70m

Total time taken = 4 + 10 + 10 = 24 seconds

Therefore average speed = 70/24 = 2.9m/s

2. Calculate the distance in metres covered by a body moving with a uniform speed of 100 km/h in 20 seconds.

Solution

Distance covered = speed × time

$$= 100 \times \frac{20}{3600} \text{ (convert km/h to m/s)}$$

$$= 50 \times 20$$

$$= 1000 \text{ m}$$

3. Calculate the time in seconds taken a body moving with a uniform speed of 100 km/h to cover a distance of 2.000 km?

Solution

Speed: 100 km/h = $100 \times \frac{1000}{3600} = 27.78 \text{ m/s}$

Time = distance/speed

$$2000 \div 27.78 \text{ m/s}$$

$$= 72.000 \text{ seconds.}$$

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 unit for velocity is m/s

(Examples)

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Table of Contents Grade 1november 20physical Science P1

1. Understanding the eBook Grade 1november 20physical Science P1
 - The Rise of Digital Reading Grade 1november 20physical Science P1
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 1november 20physical Science P1
 - 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 Grade 1november 20physical Science P1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 1november 20physical Science P1
 - Personalized Recommendations
 - Grade 1november 20physical Science P1 User Reviews and Ratings

- Grade 1 november 20physical Science P1 and Bestseller Lists
- 5. Accessing Grade 1 november 20physical Science P1 Free and Paid eBooks
 - Grade 1 november 20physical Science P1 Public Domain eBooks
 - Grade 1 november 20physical Science P1 eBook Subscription Services
 - Grade 1 november 20physical Science P1 Budget-Friendly Options
- 6. Navigating Grade 1 november 20physical Science P1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 1 november 20physical Science P1 Compatibility with Devices
 - Grade 1 november 20physical Science P1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 1 november 20physical Science P1
 - Highlighting and Note-Taking Grade 1 november 20physical Science P1
 - Interactive Elements Grade 1 november 20physical Science P1
- 8. Staying Engaged with Grade 1 november 20physical Science P1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 1 november 20physical Science P1
- 9. Balancing eBooks and Physical Books Grade 1 november 20physical Science P1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 1 november 20physical Science P1
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 1 november 20physical Science P1
 - Setting Reading Goals Grade 1 november 20physical Science P1
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 1 november 20physical Science P1
 - Fact-Checking eBook Content of Grade 1 november 20physical Science P1
 - 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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