

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

$$= 100 \times \frac{20}{3600} = 5.56 \text{ m}$$

$$= 5.56 \times 10$$

$$= 55.6 \text{ m}$$

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

$$= \frac{2000}{27.78} = 72 \text{ s}$$

$$= 72 \times 60 = 4320 \text{ seconds.}$$

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 Physical Science P1 Scope Grade10

1. Understanding the eBook Physical Science P1 Scope Grade10
 - The Rise of Digital Reading Physical Science P1 Scope Grade10
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science P1 Scope Grade10
 - 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 P1 Scope Grade10
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science P1 Scope Grade10
 - Personalized Recommendations
 - Physical Science P1 Scope Grade10 User Reviews and Ratings
 - Physical Science P1 Scope Grade10 and Bestseller Lists

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