

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 = 2.9 m/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 = $100 \times \frac{1000}{3600} \text{ m/s} = 27.78 \text{ m/s}$

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 Physical Science Paper1 Grade 10 Scope

1. Understanding the eBook Physical Science Paper1 Grade 10 Scope
 - The Rise of Digital Reading Physical Science Paper1 Grade 10 Scope
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Paper1 Grade 10 Scope
 - 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 Paper1 Grade 10 Scope
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Paper1 Grade 10 Scope
 - Personalized Recommendations

- Physical Science Paper1 Grade 10 Scope User Reviews and Ratings
- Physical Science Paper1 Grade 10 Scope and Bestseller Lists
- 5. Accessing Physical Science Paper1 Grade 10 Scope Free and Paid eBooks
 - Physical Science Paper1 Grade 10 Scope Public Domain eBooks
 - Physical Science Paper1 Grade 10 Scope eBook Subscription Services
 - Physical Science Paper1 Grade 10 Scope Budget-Friendly Options
- 6. Navigating Physical Science Paper1 Grade 10 Scope eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Paper1 Grade 10 Scope Compatibility with Devices
 - Physical Science Paper1 Grade 10 Scope Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Paper1 Grade 10 Scope
 - Highlighting and Note-Taking Physical Science Paper1 Grade 10 Scope
 - Interactive Elements Physical Science Paper1 Grade 10 Scope
- 8. Staying Engaged with Physical Science Paper1 Grade 10 Scope
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Paper1 Grade 10 Scope
- 9. Balancing eBooks and Physical Books Physical Science Paper1 Grade 10 Scope
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Paper1 Grade 10 Scope
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Paper1 Grade 10 Scope
 - Setting Reading Goals Physical Science Paper1 Grade 10 Scope
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Paper1 Grade 10 Scope
 - Fact-Checking eBook Content of Physical Science Paper1 Grade 10 Scope

- 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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