

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

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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Nevison Mutasa



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Table of Contents Scope Of Physical Science Grade Nkangala Region

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

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