

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 = 100m

Total time taken = 4 + 10 + 6 = 20 seconds

Therefore average speed = 100 / 20 = 5m/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 km/h = 360 * 1000 / 60 * 60 = 100m/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 Physical Science G10 Exemplar

1. Understanding the eBook Physical Science G10 Exemplar
 - The Rise of Digital Reading Physical Science G10 Exemplar
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science G10 Exemplar
 - 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 G10 Exemplar
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science G10 Exemplar
 - Personalized Recommendations
 - Physical Science G10 Exemplar User Reviews and Ratings
 - Physical Science G10 Exemplar and Bestseller Lists
5. Accessing Physical Science G10 Exemplar Free and Paid eBooks

- Physical Science G10 Exemplar Public Domain eBooks
 - Physical Science G10 Exemplar eBook Subscription Services
 - Physical Science G10 Exemplar Budget-Friendly Options
6. Navigating Physical Science G10 Exemplar eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science G10 Exemplar Compatibility with Devices
 - Physical Science G10 Exemplar Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science G10 Exemplar
 - Highlighting and Note-Taking Physical Science G10 Exemplar
 - Interactive Elements Physical Science G10 Exemplar
 8. Staying Engaged with Physical Science G10 Exemplar
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science G10 Exemplar
 9. Balancing eBooks and Physical Books Physical Science G10 Exemplar
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science G10 Exemplar
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Physical Science G10 Exemplar
 - Setting Reading Goals Physical Science G10 Exemplar
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Physical Science G10 Exemplar
 - Fact-Checking eBook Content of Physical Science G10 Exemplar
 - 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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