

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

$$= 100 \times \frac{20}{3600} = 0.555 \text{ km}$$

$$= 555 \text{ m}$$

$$= 0.555 \text{ km}$$

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

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

$$= 72 \text{ s}$$

C. 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 Grade10 Physics 2012 June Exam Memo Limpopo

1. Understanding the eBook Physical Science Grade10 Physics 2012 June Exam Memo Limpopo
 - The Rise of Digital Reading Physical Science Grade10 Physics 2012 June Exam Memo Limpopo
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Grade10 Physics 2012 June Exam Memo Limpopo
 - 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 Grade10 Physics 2012 June Exam Memo Limpopo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Grade10 Physics 2012 June Exam Memo Limpopo
 - Personalized Recommendations
 - Physical Science Grade10 Physics 2012 June Exam Memo Limpopo User Reviews and Ratings
 - Physical Science Grade10 Physics 2012 June Exam Memo Limpopo and Bestseller Lists

5. Accessing Physical Science Grade10 Physics 2012 June Exam Memo Limpopo Free and Paid eBooks
 - Physical Science Grade10 Physics 2012 June Exam Memo Limpopo Public Domain eBooks
 - Physical Science Grade10 Physics 2012 June Exam Memo Limpopo eBook Subscription Services
 - Physical Science Grade10 Physics 2012 June Exam Memo Limpopo Budget-Friendly Options
6. Navigating Physical Science Grade10 Physics 2012 June Exam Memo Limpopo eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Grade10 Physics 2012 June Exam Memo Limpopo Compatibility with Devices
 - Physical Science Grade10 Physics 2012 June Exam Memo Limpopo Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Grade10 Physics 2012 June Exam Memo Limpopo
 - Highlighting and Note-Taking Physical Science Grade10 Physics 2012 June Exam Memo Limpopo
 - Interactive Elements Physical Science Grade10 Physics 2012 June Exam Memo Limpopo
8. Staying Engaged with Physical Science Grade10 Physics 2012 June Exam Memo Limpopo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Grade10 Physics 2012 June Exam Memo Limpopo
9. Balancing eBooks and Physical Books Physical Science Grade10 Physics 2012 June Exam Memo Limpopo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Grade10 Physics 2012 June Exam Memo Limpopo
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Grade10 Physics 2012 June Exam Memo Limpopo
 - Setting Reading Goals Physical Science Grade10 Physics 2012 June Exam Memo Limpopo
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Grade10 Physics 2012 June Exam Memo Limpopo
 - Fact-Checking eBook Content of Physical Science Grade10 Physics 2012 June Exam Memo Limpopo
 - 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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