

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 = $10 + 50 = 100\text{m}$

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

Therefore average speed = $100 / 20 = 5\text{m/s}$

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: $360 \text{ km/h} = 360 * 1000 / 60 * 60 = 100\text{m/s}$

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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Rachel S Tattersall



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Whispering the Strategies of Language: An Emotional Journey through **Physical Science June Exam Paper 1 Exemplar**

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Table of Contents Physical Science June Exam Paper 1 Exemplar

1. Understanding the eBook Physical Science June Exam Paper 1 Exemplar
 - The Rise of Digital Reading Physical Science June Exam Paper 1 Exemplar
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science June Exam Paper 1 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 June Exam Paper 1 Exemplar
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science June Exam Paper 1 Exemplar

- Personalized Recommendations
 - Physical Science June Exam Paper 1 Exemplar User Reviews and Ratings
 - Physical Science June Exam Paper 1 Exemplar and Bestseller Lists
5. Accessing Physical Science June Exam Paper 1 Exemplar Free and Paid eBooks
- Physical Science June Exam Paper 1 Exemplar Public Domain eBooks
 - Physical Science June Exam Paper 1 Exemplar eBook Subscription Services
 - Physical Science June Exam Paper 1 Exemplar Budget-Friendly Options
6. Navigating Physical Science June Exam Paper 1 Exemplar eBook Formats
- ePub, PDF, MOBI, and More
 - Physical Science June Exam Paper 1 Exemplar Compatibility with Devices
 - Physical Science June Exam Paper 1 Exemplar Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Physical Science June Exam Paper 1 Exemplar
 - Highlighting and Note-Taking Physical Science June Exam Paper 1 Exemplar
 - Interactive Elements Physical Science June Exam Paper 1 Exemplar
8. Staying Engaged with Physical Science June Exam Paper 1 Exemplar
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science June Exam Paper 1 Exemplar
9. Balancing eBooks and Physical Books Physical Science June Exam Paper 1 Exemplar
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science June Exam Paper 1 Exemplar
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science June Exam Paper 1 Exemplar
- Setting Reading Goals Physical Science June Exam Paper 1 Exemplar
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science June Exam Paper 1 Exemplar

- Fact-Checking eBook Content of Physical Science June Exam Paper 1 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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