

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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Resources for Teaching Middle School Science Smithsonian Institution,National Academy of Engineering,National Science Resources Center of the National Academy of Sciences,Institute of Medicine,1998-03-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering

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Table of Contents Answers Examination Term 3 Physical Science For Grade 10

1. Understanding the eBook Answers Examination Term 3 Physical Science For Grade 10
 - The Rise of Digital Reading Answers Examination Term 3 Physical Science For Grade 10
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers Examination Term 3 Physical Science For Grade 10
 - 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 Answers Examination Term 3 Physical Science For Grade 10
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers Examination Term 3 Physical Science For Grade 10
 - Personalized Recommendations
 - Answers Examination Term 3 Physical Science For Grade 10 User Reviews and Ratings

- Answers Examination Term 3 Physical Science For Grade 10 and Bestseller Lists
- 5. Accessing Answers Examination Term 3 Physical Science For Grade 10 Free and Paid eBooks
 - Answers Examination Term 3 Physical Science For Grade 10 Public Domain eBooks
 - Answers Examination Term 3 Physical Science For Grade 10 eBook Subscription Services
 - Answers Examination Term 3 Physical Science For Grade 10 Budget-Friendly Options
- 6. Navigating Answers Examination Term 3 Physical Science For Grade 10 eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers Examination Term 3 Physical Science For Grade 10 Compatibility with Devices
 - Answers Examination Term 3 Physical Science For Grade 10 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers Examination Term 3 Physical Science For Grade 10
 - Highlighting and Note-Taking Answers Examination Term 3 Physical Science For Grade 10
 - Interactive Elements Answers Examination Term 3 Physical Science For Grade 10
- 8. Staying Engaged with Answers Examination Term 3 Physical Science For Grade 10
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers Examination Term 3 Physical Science For Grade 10
- 9. Balancing eBooks and Physical Books Answers Examination Term 3 Physical Science For Grade 10
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers Examination Term 3 Physical Science For Grade 10
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers Examination Term 3 Physical Science For Grade 10
 - Setting Reading Goals Answers Examination Term 3 Physical Science For Grade 10
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers Examination Term 3 Physical Science For Grade 10
 - Fact-Checking eBook Content of Answers Examination Term 3 Physical Science For Grade 10
 - 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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