

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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Raffaela Di Napoli

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Table of Contents Physical Science P1 Gr 10 Exemplar 2013 Eng

1. Understanding the eBook Physical Science P1 Gr 10 Exemplar 2013 Eng
 - The Rise of Digital Reading Physical Science P1 Gr 10 Exemplar 2013 Eng
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science P1 Gr 10 Exemplar 2013 Eng
 - 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 P1 Gr 10 Exemplar 2013 Eng
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science P1 Gr 10 Exemplar 2013 Eng
 - Personalized Recommendations
 - Physical Science P1 Gr 10 Exemplar 2013 Eng User Reviews and Ratings
 - Physical Science P1 Gr 10 Exemplar 2013 Eng and Bestseller Lists
5. Accessing Physical Science P1 Gr 10 Exemplar 2013 Eng Free and Paid eBooks

- Physical Science P1 Gr 10 Exemplar 2013 Eng Public Domain eBooks
 - Physical Science P1 Gr 10 Exemplar 2013 Eng eBook Subscription Services
 - Physical Science P1 Gr 10 Exemplar 2013 Eng Budget-Friendly Options
6. Navigating Physical Science P1 Gr 10 Exemplar 2013 Eng eBook Formats
- ePub, PDF, MOBI, and More
 - Physical Science P1 Gr 10 Exemplar 2013 Eng Compatibility with Devices
 - Physical Science P1 Gr 10 Exemplar 2013 Eng Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Physical Science P1 Gr 10 Exemplar 2013 Eng
 - Highlighting and Note-Taking Physical Science P1 Gr 10 Exemplar 2013 Eng
 - Interactive Elements Physical Science P1 Gr 10 Exemplar 2013 Eng
8. Staying Engaged with Physical Science P1 Gr 10 Exemplar 2013 Eng
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science P1 Gr 10 Exemplar 2013 Eng
9. Balancing eBooks and Physical Books Physical Science P1 Gr 10 Exemplar 2013 Eng
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science P1 Gr 10 Exemplar 2013 Eng
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science P1 Gr 10 Exemplar 2013 Eng
- Setting Reading Goals Physical Science P1 Gr 10 Exemplar 2013 Eng
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science P1 Gr 10 Exemplar 2013 Eng
- Fact-Checking eBook Content of Physical Science P1 Gr 10 Exemplar 2013 Eng
 - 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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