

# 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  $\text{ms}^{-1}$ )

**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

$$=180 \times 1000 / 60 \times 60 = 50 \text{ m/s}$$

$$=50 \times 30$$

$$=1,500 \text{ m}$$

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= $360 \times 1000 / 60 \times 60 = 100 \text{ m/s}$

Time=distance/speed

$$3000 \times 1000 / 100$$

$$=30,000 \text{ seconds.}$$

### 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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Shipman,2000-01-01     Holt Physical Science Mapi M. Cuevas,Lamb,1994     **An Approach to Physical Science** Physical  
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## **Table of Contents Physical Science Exemplar 2014 For Grade10**

1. Understanding the eBook Physical Science Exemplar 2014 For Grade10
  - The Rise of Digital Reading Physical Science Exemplar 2014 For Grade10
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Exemplar 2014 For Grade10
  - 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 Exemplar 2014 For Grade10
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Exemplar 2014 For Grade10
  - Personalized Recommendations
  - Physical Science Exemplar 2014 For Grade10 User Reviews and Ratings
  - Physical Science Exemplar 2014 For Grade10 and Bestseller Lists
5. Accessing Physical Science Exemplar 2014 For Grade10 Free and Paid eBooks
  - Physical Science Exemplar 2014 For Grade10 Public Domain eBooks
  - Physical Science Exemplar 2014 For Grade10 eBook Subscription Services
  - Physical Science Exemplar 2014 For Grade10 Budget-Friendly Options
6. Navigating Physical Science Exemplar 2014 For Grade10 eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science Exemplar 2014 For Grade10 Compatibility with Devices
  - Physical Science Exemplar 2014 For Grade10 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Exemplar 2014 For Grade10
  - Highlighting and Note-Taking Physical Science Exemplar 2014 For Grade10
  - Interactive Elements Physical Science Exemplar 2014 For Grade10
8. Staying Engaged with Physical Science Exemplar 2014 For Grade10

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Physical Science Exemplar 2014 For Grade10
- 9. Balancing eBooks and Physical Books Physical Science Exemplar 2014 For Grade10
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Exemplar 2014 For Grade10
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Exemplar 2014 For Grade10
  - Setting Reading Goals Physical Science Exemplar 2014 For Grade10
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Exemplar 2014 For Grade10
  - Fact-Checking eBook Content of Physical Science Exemplar 2014 For Grade10
  - 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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