

# 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<sup>-1</sup>).

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

$$= 100 \times \frac{20}{3600} \text{ (convert km/h to m/s)}$$

$$= 50 \times 20$$

$$= 1000 \text{ m}$$

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

$$2000 \div 27.78 \text{ m/s}$$

$$= 72.000 \text{ seconds.}$$

### 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 unit for velocity is m/s

Examples

# Physical Science Paper1 Grade 10 November 2014

**Clifford Lane**



## **Physical Science Paper1 Grade 10 November 2014:**

*Research Outlook, Innovation & Research Trends in Management* Dr Prashant P Chaudhari, Dr Jasdeep Kaur Dhani, Mrs Priyanka Gupta, 2020-10-25 The aim of this book is to provide a concise presentation of the theory and practice in the field of management studies with particular emphasis on effective and innovative practices The scope is comprehensive and research based and yet presents the content in an accessible manner ready to be applied in management practice The book presents conventional and newer tools for research in management studies These themes are anchored in the core elements of management studies together with inputs from current research efforts By adding quality research articles and related case studies it can form a solid base for researchers in the management With a general grounding in the strategy literature including key references it might even serve as a useful core text for PhD students with a general interest in the management field R D teams in the twenty first century will work on complex problems that require the input of a variety of disciplines and often involve collaboration among specialists located on different continents Add the business dimensions of marketing finance design production and legal assistance and the management of research development and innovation is clearly demanding This book is directed primarily to students academicians and other professionals in the field of management Beyond the quality professional group the book will also attract attention of research scholars pursuing PhD in the field of management At a glance this book is targeted to the needs of individuals engaged in the field of teaching and research of management Creative and innovative topics are presented to the audience in a way that enables them to incorporate new proficiencies into their day to day work We would like to thank all the contributors who have made the production of this book so fascinating and enjoyable Their scholarship and dedicated commitment and motivation to getting it right are the keys to the book's quality and we greatly appreciate their good nature over many months in the face of our editorial demands and time limits We are also grateful for using their texts ideas and critical remarks We would also like to thank Dr Craig N Refugio Dr D Ayub Khan Dawood all reviewers and all authors for their help in consolidating the interdisciplinary of the book We are grateful to all the 18 institutions for their support It will not be possible to bring out this edition

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competitively and designed hospital and freestanding procedure units to utilize them In the process they incorporated market strategies into medical organization and practice Although palliative benefits and striking tumor reductions fueled hopes of curing cancer scientific research all too often found serious patient harm and disappointing beneficial impact on cancer survival This thoroughly documented and provocative inquiry concludes that public health policy needs to re evaluate market driven high tech medicine and build evidence based health care systems

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### **Table of Contents Physical Science Paper1 Grade 10 November 2014**

1. Understanding the eBook Physical Science Paper1 Grade 10 November 2014
  - The Rise of Digital Reading Physical Science Paper1 Grade 10 November 2014
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Paper1 Grade 10 November 2014
  - 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 Paper1 Grade 10 November 2014
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Paper1 Grade 10 November 2014
  - Personalized Recommendations
  - Physical Science Paper1 Grade 10 November 2014 User Reviews and Ratings

- Physical Science Paper1 Grade 10 November 2014 and Bestseller Lists
- 5. Accessing Physical Science Paper1 Grade 10 November 2014 Free and Paid eBooks
  - Physical Science Paper1 Grade 10 November 2014 Public Domain eBooks
  - Physical Science Paper1 Grade 10 November 2014 eBook Subscription Services
  - Physical Science Paper1 Grade 10 November 2014 Budget-Friendly Options
- 6. Navigating Physical Science Paper1 Grade 10 November 2014 eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science Paper1 Grade 10 November 2014 Compatibility with Devices
  - Physical Science Paper1 Grade 10 November 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Paper1 Grade 10 November 2014
  - Highlighting and Note-Taking Physical Science Paper1 Grade 10 November 2014
  - Interactive Elements Physical Science Paper1 Grade 10 November 2014
- 8. Staying Engaged with Physical Science Paper1 Grade 10 November 2014
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Paper1 Grade 10 November 2014
- 9. Balancing eBooks and Physical Books Physical Science Paper1 Grade 10 November 2014
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Paper1 Grade 10 November 2014
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Paper1 Grade 10 November 2014
  - Setting Reading Goals Physical Science Paper1 Grade 10 November 2014
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Paper1 Grade 10 November 2014
  - Fact-Checking eBook Content of Physical Science Paper1 Grade 10 November 2014
  - 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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