

# 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

$$=180 \times 1000/60 \times 60 \times 30 \text{ m/s}$$

$$=50 \times 30$$

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

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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Regents Exams and Answers Physics Physical Setting Revised Edition Barron's Educational Series, Miriam Lazar, 2021-01-05 Barron's Regents Exams and Answers Physics provides essential review for students taking the Physics Regents including actual exams administered for the course thorough answer explanations and comprehensive review of all topics This edition features Eight actual administered Regents exams so students can get familiar with the test Comprehensive review questions grouped by topic to help refresh skills learned in class Thorough explanations for all answers Score analysis charts to help identify strengths and weaknesses Study tips and test taking strategies *The Shifting Global World of Youth and Education* Mabel Ann Brown, 2017-08-15 The Shifting Global World of Youth and Education explores how increasing migration and population changes are having an unprecedented impact on global education Given that the number of children of migrant background is growing internationally there is a need for increasing awareness of the educational attainment and cultural integration of this population group This book presents international perspectives on migration and youth and analyses what kinds of effects such demographic changes are having on educational systems around the world The chapters in this volume provide a fascinating insight into how countries around the world are dealing with loss or growth in their young population as well as changes to their education systems Written by specialist academics from the relevant country the book covers Cuba Lithuania the United Kingdom the United States Finland Greece Germany Austria Hungary Latvia China Australia India Italy and Poland Taking into consideration the countries social and political context the chapters discuss educational issues surrounding curriculum assessment and the opportunities available for the support of young people Conclusions are drawn about what could be done in the future for the benefit of both the migrant and the existing populations The Shifting Global World of Youth and Education will be of great interest to academics researchers and postgraduate students in the disciplines of education sociology political sciences and social work The book will also give secondary teachers teaching assistants social workers and youth workers the opportunity to reflect on their role within a national and international context *OECD Reviews of Evaluation and Assessment in Education: Serbia* Maghnouj Soumaya, Salinas Daniel, Kitchen Hannah, Guthrie Caitlyn, Bethell George, Fordham Elizabeth, 2020-03-20 This review developed in cooperation with UNICEF provides Serbia with recommendations to help strengthen its evaluation and assessment system to focus on support for student learning It will be of interest to Serbia as well as other countries looking to make more effective use of their evaluation and assessment system to improve quality and equity and result in better outcomes for all students World Congress on Medical Physics and Biomedical Engineering, June 7-12, 2015, Toronto, Canada David A. Jaffray, 2015-07-13 This book presents the proceedings of the IUPESM World Biomedical Engineering and Medical Physics a tri annual high level policy meeting dedicated exclusively to furthering the role of biomedical engineering and medical physics in medicine The book offers papers about emerging issues related to the development and sustainability

of the role and impact of medical physicists and biomedical engineers in medicine and healthcare It provides a unique and important forum to secure a coordinated multileveled global response to the need demand and importance of creating and supporting strong academic and clinical teams of biomedical engineers and medical physicists for the benefit of human health

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1. Understanding the eBook June Examination 2014 Physical Scinces Grade 1
  - The Rise of Digital Reading June Examination 2014 Physical Scinces Grade 1
  - Advantages of eBooks Over Traditional Books
2. Identifying June Examination 2014 Physical Scinces Grade 1
  - 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 June Examination 2014 Physical Scinces Grade 1
  - User-Friendly Interface
4. Exploring eBook Recommendations from June Examination 2014 Physical Scinces Grade 1
  - Personalized Recommendations
  - June Examination 2014 Physical Scinces Grade 1 User Reviews and Ratings
  - June Examination 2014 Physical Scinces Grade 1 and Bestseller Lists

5. Accessing June Examination 2014 Physical Sciences Grade 1 Free and Paid eBooks
  - June Examination 2014 Physical Sciences Grade 1 Public Domain eBooks
  - June Examination 2014 Physical Sciences Grade 1 eBook Subscription Services
  - June Examination 2014 Physical Sciences Grade 1 Budget-Friendly Options
6. Navigating June Examination 2014 Physical Sciences Grade 1 eBook Formats
  - ePub, PDF, MOBI, and More
  - June Examination 2014 Physical Sciences Grade 1 Compatibility with Devices
  - June Examination 2014 Physical Sciences Grade 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of June Examination 2014 Physical Sciences Grade 1
  - Highlighting and Note-Taking June Examination 2014 Physical Sciences Grade 1
  - Interactive Elements June Examination 2014 Physical Sciences Grade 1
8. Staying Engaged with June Examination 2014 Physical Sciences Grade 1
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers June Examination 2014 Physical Sciences Grade 1
9. Balancing eBooks and Physical Books June Examination 2014 Physical Sciences Grade 1
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection June Examination 2014 Physical Sciences Grade 1
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine June Examination 2014 Physical Sciences Grade 1
  - Setting Reading Goals June Examination 2014 Physical Sciences Grade 1
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of June Examination 2014 Physical Sciences Grade 1
  - Fact-Checking eBook Content of June Examination 2014 Physical Sciences Grade 1
  - 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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