

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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PT Brinkman

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the PT Brinkman text.

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Teachers and Testing David A. Goslin, 1967-10-02 Discusses the uses and abuses of intelligence testing in our educational systems Dr Goslin examines teachers opinions and practices with regard to tests and finds considerable discrepancies between attitude and behavior He points to the need for formulation of school policies that clearly specify what role teachers are to play in the measurement process Dr Goslin makes several policy recommendations stressing the idea that the measuring process must take into account many aspects of a child s background and characteristics and must guard against premature labeling or over categorization *Research in the Teaching of Science* ,1962 *Bulletin* ,1932 **Bulletin** United States. Office of Education,1963 **University of Michigan Official Publication** ,1964 *Statistics of Land-grant Colleges and Universities* United States. Office of Education,1932 *The Leadership Role of State Supervisors of Mathematics* Alpheus Lee White, Archie Raymond Ayers, Edith Christine Simanek Greer, Ralph Newell Finchum, Glenn Charles Boerrigter, John Hamilton Russel, Richard Merle Harbeck, 1962 **Ebony** , 1974-08 EBONY is the flagship magazine of Johnson Publishing Founded in 1945 by John H Johnson it still maintains the highest global circulation of any African American focused magazine **Private Secondary Schools: Traditional Day and Boarding Schools** Peterson's, 2011-05-01 Peterson s Private Secondary Schools Traditional Day and Boarding Schools is everything parents need to find the right day or boarding private secondary school for their child Readers will find hundreds of school profiles plus links to informative two page in depth descriptions written by some of the schools Helpful information includes the school s area of specialization setting affiliation accreditation subjects offered special academic programs tuition financial aid student profile faculty academic programs student life admission information contacts and much more *Adaptive Behavior Assessment System-II* Thomas Oakland, Patti L. Harrison, 2011-10-10 Adaptive Behavior Assessment System II summarizes information on adaptive behavior and skills as well as general issues in adaptive behavior assessment with the goal of promoting sound assessment practice during uses interpretations and applications of the Adaptive Behavior Assessment System II Adaptive behavior and skills refer to personal qualities associated with the ability to meet one s personal needs such as communication self care socialization etc and those of others Data from measures of adaptive behavior have been used most commonly in assessment and intervention services for persons with mental retardation However the display of adaptive behaviors and skills is relevant to all persons The Adaptive Behavior Assessment System II ABAS II provides a comprehensive norm referenced assessment of the adaptive behavior and skills of individuals from birth through age 89 The comprehensive nature of the ABAS II ease in administration and scoring and wide age range have resulted in its widespread use for a large number of assessment purposes The book provides practical information and thus serves as a valuable resource for those who use the ABAS II Assists in the functional use of the ABAS II Provides case studies illustrating use of the ABAS II in comprehensive assessment and intervention planning Reviews scholarship on adaptive behaviors and skills

Describes legal ethical and other professional standards and guidelines that apply to the use of the ABAS II and other measures of adaptive behavior Discusses the use of the ABAS II with autism mental retardation young children and those in elementary and secondary school as well as incarcerated persons being evaluated for possible mental retardation Ebony,1974-08 EBONY is the flagship magazine of Johnson Publishing Founded in 1945 by John H Johnson it still maintains the highest global circulation of any African American focused magazine *Private Secondary Schools: Special Needs Schools* Peterson's,2011-05-01 Peterson s Private Secondary Schools Special Needs Schools provides the help parents need to find the right therapeutic or special needs school for their child Readers will find dozens of school profiles plus links to informative two page in depth descriptions written by some of the schools Helpful information includes the school s area of specialization setting affiliation accreditation subjects offered special academic programs tuition financial aid student profile faculty academic programs student life admission information contacts and much more *Research in Education* ,1974

Resources in Education ,1989 **ONTERIS Printed Index** Barbara Beardsley,Ontario. Ministry of Education,Greg Cable,Ilze Cockburn,1978 5 Levels of Gifted Deborah Ruf, Ph.D.,2022-07-30 Formerly titled Losing Our Minds Gifted Children Left Behind this book describes differences in developmental stages within the gifted population The children are classified into five levels of giftedness based on behaviors and developmental milestones giving parents and educators a reference guide to compare with their own gifted children or students A child s intellectual level can thus be estimated after which the book provides different educational approaches and practical advice including how to find the best type of school for each level *The American School Board Journal* ,1925 Testing Mexican American Youth Richard R. DeBlassie,1980

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Proceedings ,1966

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Table of Contents Physical Science Iq Tes Grade10

1. Understanding the eBook Physical Science Iq Tes Grade10
 - The Rise of Digital Reading Physical Science Iq Tes Grade10
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Iq Tes 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 Iq Tes Grade10
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Iq Tes Grade10
 - Personalized Recommendations
 - Physical Science Iq Tes Grade10 User Reviews and Ratings
 - Physical Science Iq Tes Grade10 and Bestseller Lists
5. Accessing Physical Science Iq Tes Grade10 Free and Paid eBooks
 - Physical Science Iq Tes Grade10 Public Domain eBooks
 - Physical Science Iq Tes Grade10 eBook Subscription Services
 - Physical Science Iq Tes Grade10 Budget-Friendly Options
6. Navigating Physical Science Iq Tes Grade10 eBook Formats

- ePub, PDF, MOBI, and More
- Physical Science Iq Tes Grade10 Compatibility with Devices
- Physical Science Iq Tes Grade10 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Iq Tes Grade10
 - Highlighting and Note-Taking Physical Science Iq Tes Grade10
 - Interactive Elements Physical Science Iq Tes Grade10
- 8. Staying Engaged with Physical Science Iq Tes Grade10
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Iq Tes Grade10
- 9. Balancing eBooks and Physical Books Physical Science Iq Tes Grade10
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Iq Tes Grade10
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Iq Tes Grade10
 - Setting Reading Goals Physical Science Iq Tes Grade10
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Iq Tes Grade10
 - Fact-Checking eBook Content of Physical Science Iq Tes 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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