

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⁻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 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 = $100 \times \frac{1000}{3600} \text{ m/s} = 27.78 \text{ m/s}$

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 Paper 2 Scope Grade10

Michael Hoelscher



Physical Science Paper 2 Scope Grade10:

Pathways to the Science Standards Steven J. Rakow,1998 The purposes of this guide are to demonstrate how to apply the National Science Education Standards to the real world of the middle school classroom and to serve as a tool for collaboration among principals state and local administrators parents and school board members Different sections focus on science teaching standards professional development standards assessment standards content standards program standards and system standards The unifying concepts and processes discussed in the content standards include science as inquiry physical science life science earth and space science science and technology science in personal and social perspectives and the history and nature of science The appendices contain an account of the relevant history of the National Science Education Standards the actual National Science Education Standards and ideas about the design of middle school science facilities DDR Resources in Education ,2001-10 **Research in Education** ,1974 **The Chemical News and Journal of Physical Science** ,1903 *Discover Science: Teacher's annotated edition* ,1991 Science content helps develop the skills needed to understand how science works learn new concepts solve problems and make decisions in today s technological society **Thesaurus of ERIC Descriptors** ,1990 4th 7th eds contain a special chapter on The role and function of the thesaurus in education by Frederick Goodman **The Chemical News and Journal of Industrial Science** ,1899 **Resources in Education** ,1992 **Chemical News and Journal of Physical Science** William Crookes,James H. Gardiner,Gerald Druce,H. W. Blood Ryan,1899 **Curriculum Review** ,1983 **Scientific and Technical Organizations and Agencies Directory** Peter D. Dresser,1994 **Research in Education** ,1973 Thesaurus of ERIC Descriptors Educational Resources Information Center (U.S.),1995 This is a reference for quick and productive searches of the ERIC database This 13th edition lists more than 10 000 terms used to index the ERIC database whether it is used in print on CD ROM or online The 13th edition of the Thesaurus features 200 new terms as well as new information in many existing entries Where appropriate the following information is included with each descriptor the date upon which the term was added to Thesaurus the posting note number of times the term was used in indexing CIJE and RIE the group code indicating the broad category in the Group Display to which that term belongs the scope note definition the use and use for terms and broader terms narrow tems and related terms Index to Educational Overhead Transparencies National Information Center for Educational Media,1975 **Energy Research Abstracts** ,1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes **Current Index to Journals in Education** ,1998 *ERIC Educational Documents Index, 1966-69: Minor descriptors and author index* ,1970

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