

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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Jicheng Xie



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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 *Paper American Society of Mechanical Engineers*,1920 *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 **Chemical News and Journal of Physical Science** ,1899 *Journal Institution of Electrical Engineers*,1971 **Palmer's Index to the Times Newspaper** ,1901 *Bailey's index to 'The Times'*. Nancy Bailey,1901 *Science Instruction in the Middle and Secondary Schools* Eugene L. Chiappetta,Thomas R. Koballa,2002 This science methods textbook is designed to prepare middle and high school science teachers to help students become scientifically and technologically literate by first helping them understand the elements of science reform and then supporting their efforts Features new to the fifth edition include Open cases and vignettes that illustrate how science teachers help students construct their own understanding Stop and Reflect exercises throughout each chapter to help readers contextualize and reflect upon what was read Expanded coverage of teaching students with special needs and equity in science teaching and learning Discussion of a variety of alternative and authentic assessment methods *Scientific and Technical Organizations and Agencies Directory* Peter D. Dresser,1994 *The School Librarian and School Library Review*

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