

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=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

$$=180 \times 1000 / 60 \times 60 = 50 \text{ m/s}$$

$$=50 \times 30$$

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

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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JS Bruner



Physical Science G10 Exemplar:

Glencoe Physical Science Charles W. McLaughlin, Marilyn Thompson, Dinah Zike, 2012 **Globe Physical Science** Bryan H. Bunch, 1996 **Loose Leaf Version for Physical Science** Bill Tillery, 2013-01-18 Physical Science Tenth Edition is intended to serve the needs of non science majors who are required to complete one or more physical science courses It offers exceptional straight forward writing complemented with useful pedagogical tools Physical Science introduces basic concepts and key ideas while providing opportunities for students to learn reasoning skills and a new way of thinking about their environment No prior work in science is assumed The text offers students complete coverage of the physical sciences with a level of explanation and detail appropriate for all students The sequence of chapters in Physical Science is flexible and the instructor can determine topic sequence and depth of coverage as needed The materials are also designed to support a conceptual approach or a combined conceptual and problem solving approach Along with the accompanying laboratory manual the text contains enough material for the instructor to select a sequence for a two semester course With the Loose Leaf version of this title students can save over half off the cost of a print book Loose Leaf pages come binder ready and students need only take to class the chapters they are learning [An Introduction to Physical Science](#) , 2009-01-01

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