

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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Tobias Bleicker



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Arun Deep's Self-Help to ICSE Physics Class 10 : 2024-25 Edition (Based on Latest ICSE Syllabus) Amar Bhutani, 2024-02-28 Self Help to ICSE Physics Class 10 has been meticulously crafted to cater to the specific needs of 10th grade ICSE students. This resource is designed to comprehensively guide students in preparing for exams effectively, ensuring the attainment of higher grades. The primary goal of this book is to assist any ICSE student in achieving the best possible grade by providing continuous support throughout the course and offering valuable advice on revision and exam preparation. The material is presented in a clear and concise format featuring ample practice questions.

Key Features:

- Chapter At a Glance:** This section provides necessary study material supported by definitions, facts, figures, flowcharts, etc.
- Solved Questions:** The condensed version is followed by solved questions and illustrative numericals along with their answers/solutions.
- Answers to Textbook Questions:** This book includes answers to questions found in the Concise Physics Class 10 textbook.
- Previous Year Question Papers:** It incorporates questions and answers from previous year ICSE Board Question Papers.
- Competency based Questions:** Special questions based on the pattern of Olympiads and other competitions are included to expose students to various question formats.
- Experiments and Sample Question Papers:** The book is complete with experiments and two sample question papers based on the exam pattern and syllabus.
- Latest ICSE Specimen Question Paper:** At the end of the book, there are the latest ICSE specimen question papers.

In conclusion, Self Help to ICSE Physics for Class 10 provides all the necessary materials for examination success and will undoubtedly guide students on the path to success.

Arun Deep's Self-Help to ICSE Physics Class 10 : 2023-24 Edition (Based on Latest ICSE Syllabus) Dr. Amar Bhutani, Self Help to ICSE Physics Class 10 has been written keeping in mind the needs of students studying in 10th ICSE. This book has been made in such a way that students will be fully guided to prepare for the exam in the most effective manner, securing higher grades. The purpose of this book is to aid any ICSE student to achieve the best possible grade in the exam. This book will give you support during the course as well as advice on revision and preparation for the exam itself. The material is presented in a clear, concise form, and there are ample questions for practice.

KEY FEATURES:

- Chapter At a Glance:** It contains the necessary study material well supported by Definitions, Facts, Figure, Flow Chart, etc.
- Solved Questions:** The condensed version is followed by Solved Questions and Illustrative Numericals along with their Answers/Solutions.
- Textbook Questions:** This book also includes the Answers to the Questions given in the Textbook of Concise Physics Class 10.
- Previous Year Question Papers:** This book includes Questions and Answers of the previous year asked Questions from ICSE Board Question Papers.
- Competency based Question:** It includes some special questions based on the pattern of olympiad and other competitions to give the students a taste of the questions asked in competitions.
- To make this book complete in all aspects:** Experiments and 2 Sample Questions Papers based on the exam pattern.
- Syllabus:** have also been given.
- At the end of book:** there are Latest ICSE Specimen Question Paper.

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