

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

$$= 100 \times \frac{20}{3600} = 0.555 \text{ km}$$

$$= 555 \text{ m}$$

$$= 0.555 \text{ km}$$

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

Time = distance/speed

$$= \frac{2000}{27.78} = 72 \text{ s}$$

$$= 72 \text{ s}$$

C. 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)

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LM Reder



Physical Science Paper 2 Scope Grade10:

The book delves into Physical Science Paper 2 Scope Grade10. Physical Science Paper 2 Scope Grade10 is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Physical Science Paper 2 Scope Grade10, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Physical Science Paper 2 Scope Grade10
 - Chapter 2: Essential Elements of Physical Science Paper 2 Scope Grade10
 - Chapter 3: Physical Science Paper 2 Scope Grade10 in Everyday Life
 - Chapter 4: Physical Science Paper 2 Scope Grade10 in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Physical Science Paper 2 Scope Grade10. The first chapter will explore what Physical Science Paper 2 Scope Grade10 is, why Physical Science Paper 2 Scope Grade10 is vital, and how to effectively learn about Physical Science Paper 2 Scope Grade10.
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5. In chapter 4, the author will scrutinize the relevance of Physical Science Paper 2 Scope Grade10 in specific contexts. This chapter will explore how Physical Science Paper 2 Scope Grade10 is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Physical Science Paper 2 Scope Grade10. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Physical Science Paper 2 Scope Grade10.

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