

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

Physical Science Grade10 Physics 2012 June Exam

Memo Limpopo

L Darling-Hammond



Physical Science Grade10 Physics 2012 June Exam Memo Limpopo:

This book delves into Physical Science Grade10 Physics 2012 June Exam Memo Limpopo. Physical Science Grade10 Physics 2012 June Exam Memo Limpopo is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Physical Science Grade10 Physics 2012 June Exam Memo Limpopo, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Physical Science Grade10 Physics 2012 June Exam Memo Limpopo
 - Chapter 2: Essential Elements of Physical Science Grade10 Physics 2012 June Exam Memo Limpopo
 - Chapter 3: Physical Science Grade10 Physics 2012 June Exam Memo Limpopo in Everyday Life
 - Chapter 4: Physical Science Grade10 Physics 2012 June Exam Memo Limpopo in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Physical Science Grade10 Physics 2012 June Exam Memo Limpopo. This chapter will explore what Physical Science Grade10 Physics 2012 June Exam Memo Limpopo is, why Physical Science Grade10 Physics 2012 June Exam Memo Limpopo is vital, and how to effectively learn about Physical Science Grade10 Physics 2012 June Exam Memo Limpopo.
 3. In chapter 2, the author will delve into the foundational concepts of Physical Science Grade10 Physics 2012 June Exam Memo Limpopo. The second chapter will elucidate the essential principles that need to be understood to grasp Physical Science Grade10 Physics 2012 June Exam Memo Limpopo in its entirety.
 4. In chapter 3, the author will examine the practical applications of Physical Science Grade10 Physics 2012 June Exam Memo Limpopo in daily life. The third chapter will showcase real-world examples of how Physical Science Grade10 Physics 2012 June Exam Memo Limpopo can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Physical Science Grade10 Physics 2012 June Exam Memo Limpopo in specific contexts. The fourth chapter will explore how Physical Science Grade10 Physics 2012 June Exam Memo Limpopo is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Physical Science Grade10 Physics 2012 June Exam Memo Limpopo. 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 Grade10 Physics 2012 June Exam Memo Limpopo.

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