PHYSICAL SCIENCES

GRADE 12

SESSION 1

(LEARNER NOTES)

TOPIC 1: MECHANICS - PROJECTILE MOTION

7

Learner Note: Always draw a diagram of the situation and enter all the numerical values onto your diagram. Remember to SELECT A DIRECTION AS POSITIVE OR NEGATIVE.

SECTION A: TYPICAL EXAM QUESTIONS

QUESTION 1: 6 minutes

(Taken from the WC Prelim. paper 2008)

A cross-bow (bow and arrow) is used to shoot an arrow vertically upwards into the air from the top of an 80 m high platform. The arrow reaches a height of 15 m above the platform and then falls to the ground below, ignore the effects of air friction.



- Calculate the magnitude of the velocity of the arrow at the instant it is shot up into the air from the top of the platform.
- 1.2 Calculate the time it takes for the arrow to reach the ground from the moment it is shot upwards
 (4)





Physical Sciences P1 November 2014 Memo Grade 12

J Spring

Physical Sciences P1 November 2014 Memo Grade 12:

This book delves into Physical Sciences P1 November2014 Memo Grade12. Physical Sciences P1 November2014 Memo Grade12 is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Physical Sciences P1 November2014 Memo Grade12, encompassing both the fundamentals and more intricate discussions.

- 1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Physical Sciences P1 November 2014 Memo Grade 12
 - Chapter 2: Essential Elements of Physical Sciences P1 November 2014 Memo Grade 12
 - ∘ Chapter 3: Physical Sciences P1 November2014 Memo Grade12 in Everyday Life
 - Chapter 4: Physical Sciences P1 November2014 Memo Grade12 in Specific Contexts
 - ∘ Chapter 5: Conclusion
- 2. In chapter 1, this book will provide an overview of Physical Sciences P1 November2014 Memo Grade12. This chapter will explore what Physical Sciences P1 November2014 Memo Grade12 is, why Physical Sciences P1 November2014 Memo Grade12 is vital, and how to effectively learn about Physical Sciences P1 November2014 Memo Grade12.
- 3. In chapter 2, the author will delve into the foundational concepts of Physical Sciences P1 November2014 Memo Grade12. This chapter will elucidate the essential principles that need to be understood to grasp Physical Sciences P1 November2014 Memo Grade12 in its entirety.
- 4. In chapter 3, this book will examine the practical applications of Physical Sciences P1 November2014 Memo Grade12 in daily life. The third chapter will showcase real-world examples of how Physical Sciences P1 November2014 Memo Grade12 can be effectively utilized in everyday scenarios.
- 5. In chapter 4, the author will scrutinize the relevance of Physical Sciences P1 November 2014 Memo Grade 12 in specific contexts. The fourth chapter will explore how Physical Sciences P1 November 2014 Memo Grade 12 is applied in specialized fields, such as education, business, and technology.
- 6. In chapter 5, the author will draw a conclusion about Physical Sciences P1 November 2014 Memo Grade 12. This chapter will summarize the key points that have been discussed throughout the book.
 - This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Physical Sciences P1 November 2014 Memo Grade 12.

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