PHYSICAL SCIENCES

GRADE 12

SESSION 1

(LEARNER NOTES)

#### TOPIC 1: MECHANICS - PROJECTILE MOTION

7

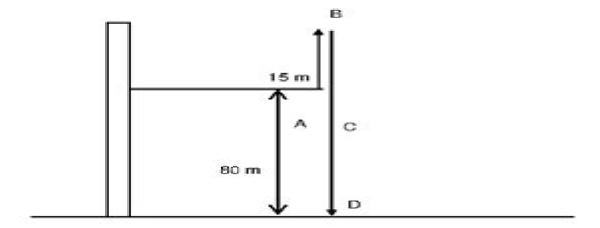
Learner Note: Always draw a diagram of the situation and enter all the numerical values onto your diagram. Remember to SELECT A DIRECTION AS POSITIVE OR NEGATIVE.

#### 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)





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#### Table of Contents Exampler Physics P1 Grade 12 2014

- 1. Understanding the eBook Exampler Physics P1 Grade 12 2014
  - The Rise of Digital Reading Exampler Physics P1 Grade 12 2014
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Exampler Physics P1 Grade 12 2014
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Exampler Physics P1 Grade 12 2014
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Exampler Physics P1 Grade 12 2014
  - Personalized Recommendations
  - Exampler Physics P1 Grade 12 2014 User Reviews and Ratings
  - Exampler Physics P1 Grade 12 2014 and Bestseller Lists

- 5. Accessing Exampler Physics P1 Grade 12 2014 Free and Paid eBooks
  - Exampler Physics P1 Grade 12 2014 Public Domain eBooks
  - Exampler Physics P1 Grade 12 2014 eBook Subscription Services
  - Exampler Physics P1 Grade 12 2014 Budget-Friendly Options
- 6. Navigating Exampler Physics P1 Grade 12 2014 eBook Formats
  - o ePub, PDF, MOBI, and More
  - Exampler Physics P1 Grade 12 2014 Compatibility with Devices
  - Exampler Physics P1 Grade 12 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Exampler Physics P1 Grade 12 2014
  - Highlighting and Note-Taking Exampler Physics P1 Grade 12 2014
  - Interactive Elements Exampler Physics P1 Grade 12 2014
- 8. Staying Engaged with Exampler Physics P1 Grade 12 2014
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Exampler Physics P1 Grade 12 2014
- 9. Balancing eBooks and Physical Books Exampler Physics P1 Grade 12 2014
  - Benefits of a Digital Library
  - $\circ\,$  Creating a Diverse Reading Collection Exampler Physics P1 Grade 12 2014
- 10. Overcoming Reading Challenges
  - o Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Exampler Physics P1 Grade 12 2014
  - Setting Reading Goals Exampler Physics P1 Grade 12 2014
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Exampler Physics P1 Grade 12 2014
  - Fact-Checking eBook Content of Exampler Physics P1 Grade 12 2014
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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