

- Answer ALL the questions in the same handwriting.
- Non-programmable calculators may be used.
- Appropriate mathematical instruments may be used.
- Round off your final numerical answers to a minimum of two decimal places.
- Give detailed reasons, discussions, if asked where needed.
- Write neatly and legibly.

Learner's Name

Learner's Surname

Grade

Page 1 of 5

- The following are represented by A, B and C:
- A) Amplitude, wavelength, wave length
  - B) Crest, trough, wavelength
  - C) Amplitude, wavelength, pulse length
  - D) Crest, trough, wavelength

[2 Marks]

1.5. The diagram below shows two points A and B on a wave.



Page 2 of 5

### Physical Sciences – Paper 1 (Physical)

How many wavelengths separate point A and B?

- A) 1,25      B) 1      C) 1,5      D) 3

[2 Marks]

1.6. Devices are sometimes placed under the headlights of a car to detect if it is equipped with the following wave...

- A) X-ray      B) Infrared light      C) Ultrasound      D) Ultra violet light

[2 Marks]

1.7. The following are an example of electromagnetic waves:

- A) Microwaves, visible light, X-rays
- B) X-rays, visible light, microwaves
- C) Microwaves, X-rays, visible light

### Physical Sciences – Paper 1 (Physical)

2.2. Identify TWO points in the graph at which the particles would be moving in the same direction.

[2 Marks]

2.3. Which point has the maximum displacement?

[1 Mark]

Calculate

2.4. The frequency of the wave produced

[2 Marks]

2.5. The wavelength of the wave produced

[1 Mark]

# Physical Science Grade 10 Paper 1 2013

**Yiyu Cai, Wouter van Joolingen, Koen  
Veermans**



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## **Table of Contents Physical Science Grade 10 Paper 1 2013**

1. Understanding the eBook Physical Science Grade 10 Paper 1 2013
  - The Rise of Digital Reading Physical Science Grade 10 Paper 1 2013
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Grade 10 Paper 1 2013
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Physical Science Grade 10 Paper 1 2013
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Grade 10 Paper 1 2013
  - Personalized Recommendations
  - Physical Science Grade 10 Paper 1 2013 User Reviews and Ratings
  - Physical Science Grade 10 Paper 1 2013 and Bestseller Lists

5. Accessing Physical Science Grade 10 Paper 1 2013 Free and Paid eBooks
  - Physical Science Grade 10 Paper 1 2013 Public Domain eBooks
  - Physical Science Grade 10 Paper 1 2013 eBook Subscription Services
  - Physical Science Grade 10 Paper 1 2013 Budget-Friendly Options
6. Navigating Physical Science Grade 10 Paper 1 2013 eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science Grade 10 Paper 1 2013 Compatibility with Devices
  - Physical Science Grade 10 Paper 1 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Grade 10 Paper 1 2013
  - Highlighting and Note-Taking Physical Science Grade 10 Paper 1 2013
  - Interactive Elements Physical Science Grade 10 Paper 1 2013
8. Staying Engaged with Physical Science Grade 10 Paper 1 2013
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Grade 10 Paper 1 2013
9. Balancing eBooks and Physical Books Physical Science Grade 10 Paper 1 2013
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Grade 10 Paper 1 2013
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Grade 10 Paper 1 2013
  - Setting Reading Goals Physical Science Grade 10 Paper 1 2013
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Grade 10 Paper 1 2013
  - Fact-Checking eBook Content of Physical Science Grade 10 Paper 1 2013
  - 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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