

- 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, wave length, 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 hulls of a boat's hulls. This equipment sends 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]

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**S Baum**



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1. Understanding the eBook Grade 10 Gauteng Physical Science Paper 1 Test Papers
  - The Rise of Digital Reading Grade 10 Gauteng Physical Science Paper 1 Test Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade 10 Gauteng Physical Science Paper 1 Test Papers
  - 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 Grade 10 Gauteng Physical Science Paper 1 Test Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 10 Gauteng Physical Science Paper 1 Test Papers
  - Personalized Recommendations
  - Grade 10 Gauteng Physical Science Paper 1 Test Papers User Reviews and Ratings
  - Grade 10 Gauteng Physical Science Paper 1 Test Papers and Bestseller Lists
5. Accessing Grade 10 Gauteng Physical Science Paper 1 Test Papers Free and Paid eBooks

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