

Question 4

- 4 A bullet is fired at $970 \text{ m}\cdot\text{s}^{-1}$ in an easterly direction. It reaches a target 200 m away, only 0,23 seconds later. Calculate:
- 4.1 the magnitude and direction of the acceleration of the bullet
(3)
- 4.2 the magnitude of the velocity with which the bullet strikes the target.
(3)

[06]

Question 5

Two identical insulated, graphite-coated polystyrene spheres are suspended from threads. The spheres are held a small distance apart. The charges on the Spheres **P** and **Q** are $-2,4 \text{ nC}$ and $+5,6 \text{ nC}$ respectively.



When the spheres are released they move towards each other.

- 5.1 Explain why the spheres move towards each other when they are released. (2)

The two spheres now touch each other and then separate.

- 5.2 Calculate the charge on each sphere after they touch and separate. (2)
- 5.3 Calculate the number of electrons transferred during contact. (4)
- 5.4 Which way will electrons move? Write only **from P to Q**, or **from Q to P**, or **neither way**? (1)
- 5.5 Explain your answer to Question 5.4. (2)

[11]

Physical Science Grade10 Controlled Test 2013

Ensheng Dong



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Table of Contents Physical Science Grade10 Controlled Test 2013

1. Understanding the eBook Physical Science Grade10 Controlled Test 2013
 - The Rise of Digital Reading Physical Science Grade10 Controlled Test 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Grade10 Controlled Test 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 Grade10 Controlled Test 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Grade10 Controlled Test 2013
 - Personalized Recommendations
 - Physical Science Grade10 Controlled Test 2013 User Reviews and Ratings
 - Physical Science Grade10 Controlled Test 2013 and Bestseller Lists
5. Accessing Physical Science Grade10 Controlled Test 2013 Free and Paid eBooks
 - Physical Science Grade10 Controlled Test 2013 Public Domain eBooks
 - Physical Science Grade10 Controlled Test 2013 eBook Subscription Services
 - Physical Science Grade10 Controlled Test 2013 Budget-Friendly Options

6. Navigating Physical Science Grade10 Controlled Test 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Grade10 Controlled Test 2013 Compatibility with Devices
 - Physical Science Grade10 Controlled Test 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Grade10 Controlled Test 2013
 - Highlighting and Note-Taking Physical Science Grade10 Controlled Test 2013
 - Interactive Elements Physical Science Grade10 Controlled Test 2013
8. Staying Engaged with Physical Science Grade10 Controlled Test 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Grade10 Controlled Test 2013
9. Balancing eBooks and Physical Books Physical Science Grade10 Controlled Test 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Grade10 Controlled Test 2013
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Grade10 Controlled Test 2013
 - Setting Reading Goals Physical Science Grade10 Controlled Test 2013
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Grade10 Controlled Test 2013
 - Fact-Checking eBook Content of Physical Science Grade10 Controlled Test 2013
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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