

## QUESTION 5

- 5.1
- 5.1.1 Aufbau diagram ✓✓ (2)
  - 5.1.2 Sulphur ✓✓ (2)
  - 5.1.3  $1s^2 2s^2 2p^6 3s^2 3p^2$  ✓✓ (2)
  - 5.1.4 Group 16 ✓ (2)
  - Period 3 ✓
  - 5.1.5 The element has 6 valence electrons ✓ and belong to the third horizontal row of the periodic table. ✓ (2)
  - 5.1.5 Non-metal ✓ (1)
- 5.2.
- 5.2.1 5 and 1, respectively (1)
  - 5.2.2  $\begin{array}{c} \text{Y} \text{ : } \text{X} \text{ : } \text{Y} \\ \vdots \\ \text{Y} \end{array}$  ✓ (2)
  - 5.2.4 N ✓ and H ✓, or P and H (2)
- [18]

## QUESTION 6

- 6.1
- (a) 24 ✓ (7)
  - (b) 12 ✓
  - (c)  $\text{Na}^+$  ✓
  - (d) 10 ✓
  - (e) 12 ✓
  - (f) 17 ✓
  - (g) 19 ✓
- 6.2 Relative atomic mass =  $(0,76 \times 35)$  ✓ +  $(0,24 \times 37)$  ✓  
= 35,48 ✓ (3)
- 6.3 Isotopes ✓✓ (2)
- [12]

## QUESTION 7

- 7.1 Sodium hydroxide ( $\text{NaOH}$ ) ✓ (2)
- Hydrogen ✓ or  $\text{H}_2(\text{g})$
- 7.2  $2\text{Mg}(\text{s}) + \text{O}_2(\text{g}) \rightarrow 2\text{MgO}(\text{s})$  ✓✓ (bal) (3)
- 7.3 Sodium + water → sodium hydroxide + water (5)
- $2\text{Na}(\text{s}) + 2\text{H}_2\text{O}(\text{l}) \rightarrow 2\text{NaOH}(\text{aq}) + \text{H}_2(\text{g})$  ✓✓ (Bal)
- 7.4 Because they react vigorously with air to form oxides ✓ and with water to form hydroxides. ✓ (2)
- 7.5 It is an inert colourless gas ✓ (2)
- It is unreactive ✓
- 7.6 Noble gases (1)
- 7.7 Because they don't react, it was not easy to discover them, so no one knew they existed. ✓✓ (2)

# Physical Science Exemplar June 2014 Grade11

**Hussin A.Rothana**



**Physical Science Exemplar June 2014 Grade11:**

This book delves into Physical Science Exemplar June 2014 Grade11. Physical Science Exemplar June 2014 Grade11 is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Physical Science Exemplar June 2014 Grade11, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Physical Science Exemplar June 2014 Grade11
    - Chapter 2: Essential Elements of Physical Science Exemplar June 2014 Grade11
    - Chapter 3: Physical Science Exemplar June 2014 Grade11 in Everyday Life
    - Chapter 4: Physical Science Exemplar June 2014 Grade11 in Specific Contexts
    - Chapter 5: Conclusion
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## **Table of Contents Physical Science Exemplar June 2014 Grade11**

1. Understanding the eBook Physical Science Exemplar June 2014 Grade11
  - The Rise of Digital Reading Physical Science Exemplar June 2014 Grade11
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Exemplar June 2014 Grade11
  - 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 Exemplar June 2014 Grade11
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Exemplar June 2014 Grade11
  - Personalized Recommendations
  - Physical Science Exemplar June 2014 Grade11 User Reviews and Ratings
  - Physical Science Exemplar June 2014 Grade11 and Bestseller Lists
5. Accessing Physical Science Exemplar June 2014 Grade11 Free and Paid eBooks
  - Physical Science Exemplar June 2014 Grade11 Public Domain eBooks
  - Physical Science Exemplar June 2014 Grade11 eBook Subscription Services
  - Physical Science Exemplar June 2014 Grade11 Budget-Friendly Options
6. Navigating Physical Science Exemplar June 2014 Grade11 eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science Exemplar June 2014 Grade11 Compatibility with Devices
  - Physical Science Exemplar June 2014 Grade11 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Exemplar June 2014 Grade11
  - Highlighting and Note-Taking Physical Science Exemplar June 2014 Grade11
  - Interactive Elements Physical Science Exemplar June 2014 Grade11

8. Staying Engaged with Physical Science Exemplar June 2014 Grade11
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Exemplar June 2014 Grade11
9. Balancing eBooks and Physical Books Physical Science Exemplar June 2014 Grade11
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Exemplar June 2014 Grade11
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Exemplar June 2014 Grade11
  - Setting Reading Goals Physical Science Exemplar June 2014 Grade11
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Exemplar June 2014 Grade11
  - Fact-Checking eBook Content of Physical Science Exemplar June 2014 Grade11
  - 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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