

**ARENA PARK SECONDARY SCHOOL  
NATURAL SCIENCE GRADE 9 – WEEK FOUR  
MISS. S. RAMGOBIN**

**Instructions**

- Stick worksheet in Grade 9 Natural Science Books
- Answer **ALL** questions in Grade 9 **EXAM FEVER WORKBOOK** on chapter 2, Matter and Materials

**TOPIC – CHEMICAL REACTIONS**

There are a number of different ways to represent chemical equations:

- With models and pictures (in submicroscopic representations);
  - with symbols and formulae (in chemical equations); and
  - with words (in word equations).
- Numbers are used in two different ways in chemical equations:
- Coefficients in front of chemical formulae indicate the numbers of atoms or molecules of a specific type that take part in the reaction; and
  - Subscripts inside chemical formulae indicate the number of atoms of a specific type in that particular compound.
- Chemical reactions happen when atoms in compounds rearrange; no atoms are lost or gained during a chemical reaction.
- In a balanced equation equal numbers of the same kinds of atoms are on opposite sides of the reaction equation.

**REVIEW QUESTIONS**

1. Why can we not change the subscripts in the formulas of reactants and products when we want to balance an equation? [2 marks]
2. Write the balanced chemical equation between carbon and oxygen to form carbon dioxide. [1 mark]
3. Write the balanced chemical equation between hydrogen and oxygen to form water. [1 mark]

# Grade9 Natural Science Exemplar 2014

**Emilie Sanchez**



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## **Table of Contents Grade9 Natural Science Exemplar 2014**

1. Understanding the eBook Grade9 Natural Science Exemplar 2014
  - The Rise of Digital Reading Grade9 Natural Science Exemplar 2014
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade9 Natural Science Exemplar 2014
  - 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 Grade9 Natural Science Exemplar 2014
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade9 Natural Science Exemplar 2014
  - Personalized Recommendations
  - Grade9 Natural Science Exemplar 2014 User Reviews and Ratings
  - Grade9 Natural Science Exemplar 2014 and Bestseller Lists
5. Accessing Grade9 Natural Science Exemplar 2014 Free and Paid eBooks
  - Grade9 Natural Science Exemplar 2014 Public Domain eBooks
  - Grade9 Natural Science Exemplar 2014 eBook Subscription Services
  - Grade9 Natural Science Exemplar 2014 Budget-Friendly Options

6. Navigating Grade9 Natural Science Exemplar 2014 eBook Formats
  - ePub, PDF, MOBI, and More
  - Grade9 Natural Science Exemplar 2014 Compatibility with Devices
  - Grade9 Natural Science Exemplar 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Grade9 Natural Science Exemplar 2014
  - Highlighting and Note-Taking Grade9 Natural Science Exemplar 2014
  - Interactive Elements Grade9 Natural Science Exemplar 2014
8. Staying Engaged with Grade9 Natural Science Exemplar 2014
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Grade9 Natural Science Exemplar 2014
9. Balancing eBooks and Physical Books Grade9 Natural Science Exemplar 2014
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Grade9 Natural Science Exemplar 2014
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Grade9 Natural Science Exemplar 2014
  - Setting Reading Goals Grade9 Natural Science Exemplar 2014
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade9 Natural Science Exemplar 2014
  - Fact-Checking eBook Content of Grade9 Natural Science Exemplar 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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