PHYSICAL SCIENCES - GRADE 10

CHAPTER - 1

Chemical Reactions and Equations

- q Chemical Reaction: —Whenever a chemical change occurs we can say that a chemical reaction has taken place
 - eg Food gets digested in our body
 - Rusting of iron.
- q Chemical Equation :—A chemical reaction can be expressed symbolically by using chemical equation

eg magnesium is burnt into air to form magnesium oxide can be represented as

$$Mg + O_2 \rightarrow MgO$$

- We can observe or recognise a chemical reaction by observing change in state, colour, by evolution of gas or by change in temperature.
- Physical state of the reactant and products are mentioned to make chemical reaction more informative, eg we use (g) for gas, (l) for liquid, (s) for solid and (aq) for aqueous.
- g Balancing Equation :— We balance the chemical equation so that no. of atoms of each element involved in the reaction remain same at the reactant and product side.

eg Fe +
$$H_2O \rightarrow Fe_2O_3 + H_2$$
 can be written as
 $3 Fe(s) + 4H_2O(g) \rightarrow Fe_2O_3(s) + 4H_2(g)$

 Combination Reaction :- The reaction in which two or more substances combine to form a new single substance

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Table of Contents Physical Science Grade 10 Pape 1

- 1. Understanding the eBook Physical Science Grade 10 Pape 1
 - The Rise of Digital Reading Physical Science Grade 10 Pape 1
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Physical Science Grade 10 Pape 1
 - 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 Pape 1
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Physical Science Grade 10 Pape 1
 - Personalized Recommendations
 - Physical Science Grade 10 Pape 1 User Reviews and Ratings
 - Physical Science Grade 10 Pape 1 and Bestseller Lists
- 5. Accessing Physical Science Grade 10 Pape 1 Free and Paid eBooks
 - Physical Science Grade 10 Pape 1 Public Domain eBooks
 - Physical Science Grade 10 Pape 1 eBook Subscription Services
 - Physical Science Grade 10 Pape 1 Budget-Friendly Options
- 6. Navigating Physical Science Grade 10 Pape 1 eBook Formats

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