

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
$$\text{Mg} + \text{O}_2 \rightarrow \text{MgO}$$

– We can observe or recognise a chemical reaction by observing change in state, colour, by evolution of gas or by change in temperature.
- q 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.
- q **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 $\text{Fe} + \text{H}_2\text{O} \rightarrow \text{Fe}_3\text{O}_4 + \text{H}_2$ can be written as
$$3\text{Fe(s)} + 4\text{H}_2\text{O(g)} \rightarrow \text{Fe}_3\text{O}_4\text{(s)} + 4\text{H}_2\text{(g)}$$
- q **Combination Reaction** :– The reaction in which two or more substances combine to form a new single substance

Physical Science Grade 10 Pape 1

Ying Liu



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Decoding **Physical Science Grade 10 Page 1**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Physical Science Grade 10 Page 1**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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