

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

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Daniel F McAuley



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process this graph plots the water temperature vs the enthalpy of the water heat content in btu lb we all know that water
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shown on the diagram designates the points at which the refrigerant changes phase

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