SAI International School Lesson Notes Subject–Chemistry, CLASS-X Ch-1 Revision of Chemical Reactions and Equations

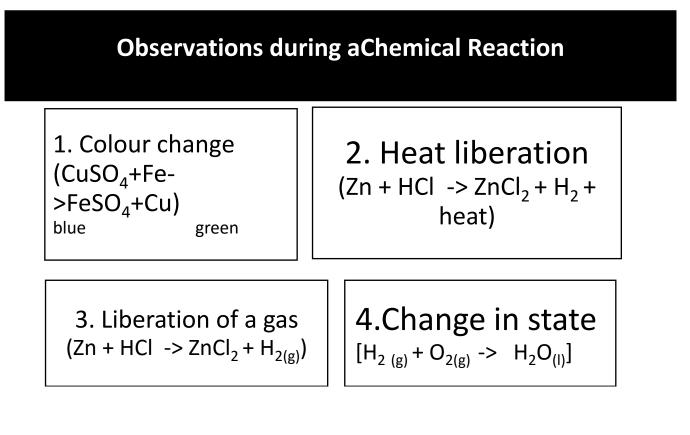
Module -6 Dt_03/04/2020

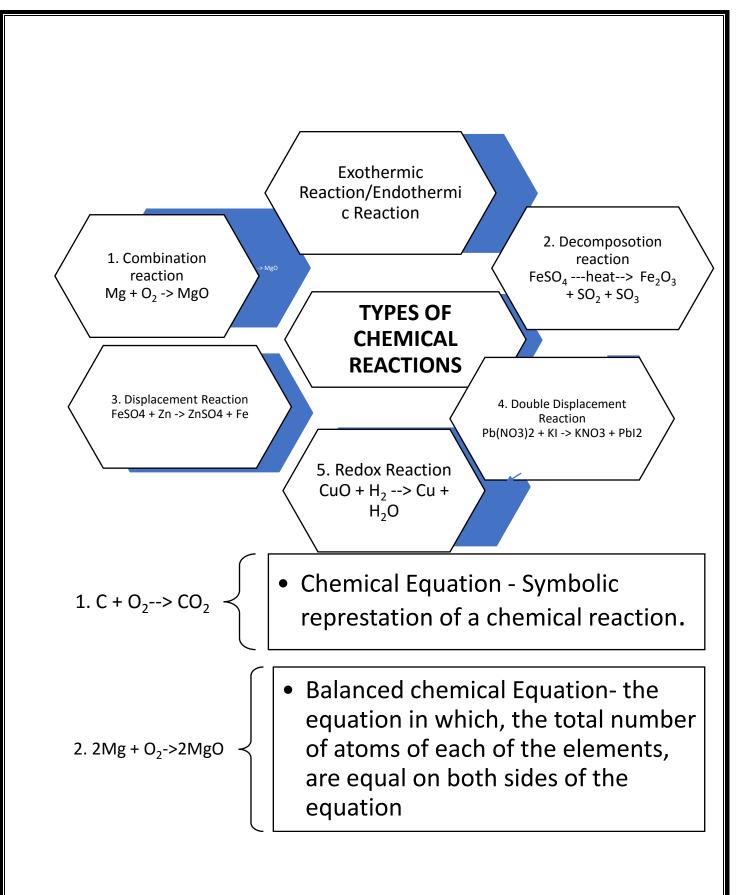
Instructions:

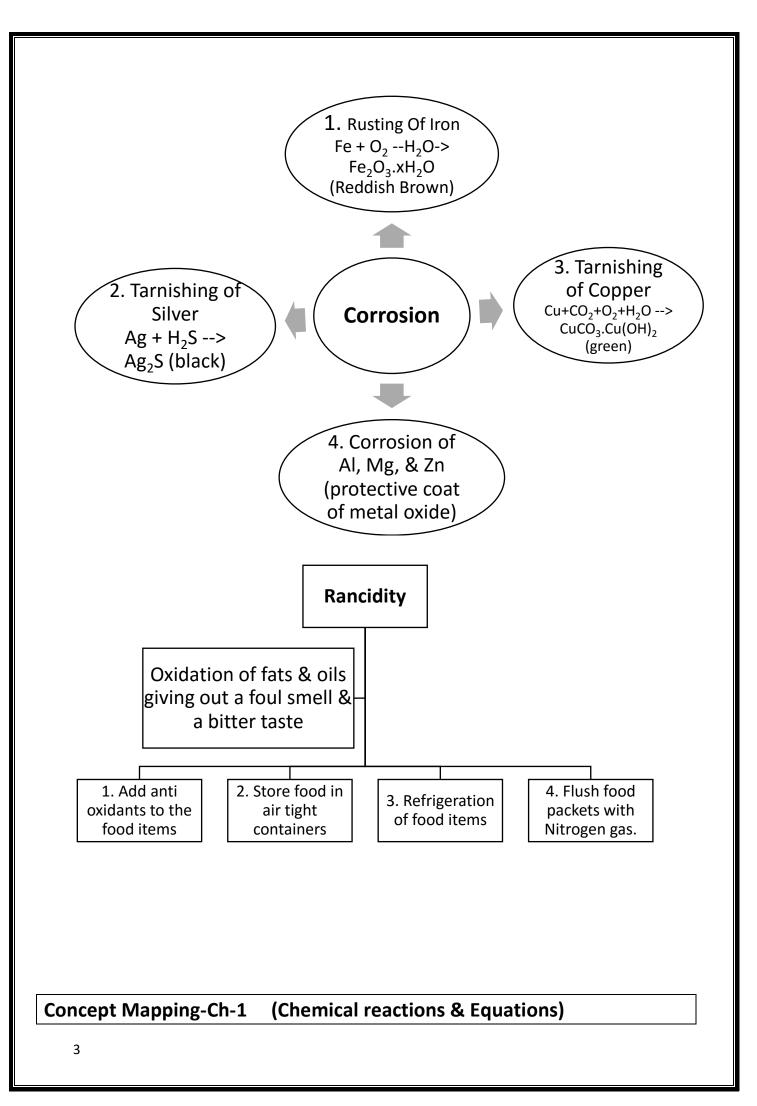
- Students you go through the mind map given based on the concepts covered in previous 5 modules.
- Go through the concept mapping given
- Finally solve various conceptual questions given based on the various concepts of the Chapter.

MIND MAP

A] Chemical Changes-







	•1. Colour change
A] Observations during aChemical Reaction	•2. Heat liberation
	•3. Liberation of a gas
	•4.Change in state
	•5.Formation of precipitate
B] Balancing of Chemical equations	Hit & Trial Method
C]TYPES OF CHEMICAL REACTIONS	•1. Combination reaction -> Exothermic
	 •2. Decomposotion reaction 2.a Thermal 2.b Electrolytic 2.c.Photolytic
	•3. Displacement Reaction
	•4. Double Displacement Reaction
	•5. Redox Reaction
	•1. Rusting Of Iron
	•2. Tarnishing of Silver
D]Corrosion	•3. Tarnishing of Copper
	•4. Corrosion of Al, Mg, & Zn
	5. Prevension of corrosion
E] Rancidity	Defination & Prevention

Assessment

Concept_Characteristics of Chemical Reaction

Q1.	State two characteristics of the chemical reaction which takes place when dilute sulphuric acid is poured over zinc granules	1
Q2	Mention two characteristics of the chemical reaction which occurs on adding potassium iodide solution to lead nitrate solution.	1
Q3	Give an example of chemical reaction showing the characteristics of change in temperature	1
Q4	Identify the characteristics of the chemical reaction which occurs on adding barium hydroxide solution to ammonium chloride solution.	1
Q5	Magnesium burns in air to form magnesium oxide. Which characteristic of chemical reaction is seen in the above reaction?	1

Concept_Balancing Chemical Equations

Q1.	Write the balanced chemical equation of the chemical reaction which takes place when dilute sulphuric acid is poured over zinc granules	1
Q2	Write the balanced chemical equation of the chemical reaction which occurs on adding potassium iodide solution to lead nitrate solution.	1

Q3	Why is it necessary to balance a chemical equation?	1
Q4	Correct and balance the following equation Ca+H ₂ O → CaOH+H	1
Q5	Magnesium burns in air to form magnesium oxide. Write the balanced chemical equation of the above chemical reaction.	1

Concept_Types of Chemical Reaction

Q1.	Give an example of double displacement reaction which is endothermic.	1
Q2	In the reaction $PbS+4H_2O_2 \rightarrow PbSO_4+4H_2O$	1
	i) Which substance is reduced?	
	ii) Which substance is oxidised?	
Q3	Is oxidation an exothermic or an endothermic reaction? Justify your answer.	1
Q4	Mg+CuO → MgO+Cu	1
	Classify the above reaction into two types.	
Q5	When a strip of reddish brown metal X is placed in a colourless salt solution YNO_3 , a shiny grey deposit is found on metal X along with formation of blue coloured solution.	1
	i) Identify X ii) Name the salt YNO_3	

Concept_Corrosion

Q1.	What is the special name given to corrosion of iron? Name any two objects/structures which are gradually damaged by the corrosion of iron.	1
Q2	Which type of chemical reactions is involved in corrosion of iron metal?	1
Q3	Define corrosion.	1
Q4	Why is corrosion not acceptable?	1
Q5	State an example of corrosion of a metal that produces positive effect.	1

Concept_Rancidity

Q1.	Which gas is flushed in the chips packets and why?	1
Q2	Define rancidity.	1
Q3	Which type of chemical reaction is responsible for causing rancidity?	1
Q4	State any two ways of preventing rancidity.	1
Q5	Give any two examples of rancidity.	1
Q6.	How will you identify the rancid food?	1