YEAR 11 A/D/E – CHEMISTRY (Girls)

WEEK 10 (1st November to 5th November)

Work Sent to the students through Zoom Learning Platform / Google classroom

Topic:- SC18b: Factors affecting reaction rates SC18c: Catalysts and activation energy

Resources: Text book, Worksheet, Board works power point

Date	Торіс		
1.11.20	Learning Objective:	Teacher uses	
Sunday	Explain the effects on rates of reaction of changes in temperature	power point	
oth	concentration, surface area to volume ratio of a solid and pressure (on		
8 th period	reactions involving gases) in terms of frequency and/or energy of	with	
	collisions between particles.	interactive	
Mode of	of Learning Outcome.		
Teaching.	Learning Outcome.		
Zoom	Investigate the effect of changes in temperature, concentration and		
	surface area of a solid on the rate of reaction. Predict the ways by which we can increase the rate of a given reaction		
2.11.20	Learning Objective:	Teacher uses	
		power point	
Monday	Interpret graphs of mass, volume or concentration of reactant	presentation	
4 th period	or product against time	with	
Mode of	Learning Outcome:	interactive	
Teaching:	Evaluate the experimental data to explain effect of various fectors on the	questions	
Zoom	rate of the reaction		
	Learning Objective:	Teacher uses	
04.11.20	Describe a catalyst as a substance that speeds up the rate of a	power point	
Wednesday	reaction without altering the products of the reaction, being	with	
oth a set of		interactive	
8 period	itself unchanged chemically and in mass at the end of the	questions	
	reaction		
Mode of	Learning Outcome:		
Teaching:	Define catalyst.		
Zoom	Recognise catalysts in the reaction.		
	Explain the effect of catalyst on the rate of reaction		
05.11.20	Learning Objective:	Teacher uses	
Thursday	Explain how the addition of a catalyst increases the rate of a	powerpoint	
		presentation	
		with	

5 th Period	reaction in terms of activation energy	interactive	
Mode of Teaching: Zoom	Recall that enzymes are biological catalysts and that enzymes are used in the production of alcoholic drinks	questions	
	Learning Outcome:		
	Explain the working of catalyst to effect the rate of reaction.		
	Appreciate the use of biocatalysts in our daily life		
05.11.20		Worksheet	
Thursday	Learning Objective: To answer the questions, on Factors affecting rates	assigned through GC.	
6 th Period	of reaction and catalysts, in the worksheet.	C	
Mode of Teaching: GC	Learning outcome: Students will be able to reinforce the concepts learned in the previous lesson by answering the questions in the worksheet.		

HOMEWORK: Complete the textbook Qs SC18b: Factors affecting reaction ratespage 138 - 139

YEAR 11 B/C/F – CHEMISTRY (Boys)

WEEK 10 (1st November to 5th November)

Work Sent to the students through Zoom Learning Platform / Google classroom

Topic:- SC18b: Factors affecting reaction rates SC18c: Catalysts and activation energy

Resources: Text book, Worksheet, Board works power point

Date	Торіс		
1.11.20	Learning Objective:	Teacher uses	
Sunday	Explain the effects on rates of reaction of changes in temperature,	power point	
1 st Period	Period concentration, surface area to volume ratio of a solid and pressure (on		
1 101104	reactions involving gases) in terms of frequency and/or energy of	interactive	
	comsions between particles.	questions	
Mode of	Learning Outcome:		
Teaching:	Investigate the effect of changes in temperature, concentration and		
Zoom	surface area of a solid on the rate of reaction.		
	Predict the ways by which we can increase the rate of a given reaction.		

1.11.20	Learning Objective:	Teacher uses
Sunday	Interpret graphs of mass, volume or concentration of reactant	power point
2 nd Period	or product against time	with
	Looming Outcome	interactive
	Learning Outcome:	questions
Mode of Teaching: Zoom	Evaluate the experimental data to explain effect of various factors on the rate of the reaction.	
2.11.20	Learning Objective:	Teacher uses
Monday	Describe a catalyst as a substance that speeds up the rate of a	power point
2 rd Danial	beserve a callingst as a substance that speeds up the face of a	presentation
3 Period	reaction without altering the products of the reaction, being	interactive
	itself unchanged chemically and in mass at the end of the reaction	questions
Mode of	Learning Outcome:	
Teaching: Zoom	Define catalyst. Recognise catalysts in the reaction. Explain the effect of catalyst on the rate of reaction	
3.11.20	Learning Objective:	Teacher uses
3.11.20 Tuesday	Learning Objective: Explain how the addition of a catalyst increases the rate of a	Teacher uses power point presentation
3.11.20 Tuesday 7 th Period	Learning Objective: Explain how the addition of a catalyst increases the rate of a reaction in terms of activation energy	Teacher uses power point presentation with
3.11.20 Tuesday 7 th Period Mode of	Learning Objective: Explain how the addition of a catalyst increases the rate of a reaction in terms of activation energy Recall that enzymes are biological catalysts and that enzymes are used in the production of alcoholic drinks	Teacher uses power point presentation with interactive questions
3.11.20 Tuesday 7 th Period Mode of Teaching:	 Learning Objective: Explain how the addition of a catalyst increases the rate of a reaction in terms of activation energy Recall that enzymes are biological catalysts and that enzymes are used in the production of alcoholic drinks Learning Outcome: 	Teacher uses power point presentation with interactive questions
 3.11.20 Tuesday 7th Period Mode of Teaching: Zoom 	 Learning Objective: Explain how the addition of a catalyst increases the rate of a reaction in terms of activation energy Recall that enzymes are biological catalysts and that enzymes are used in the production of alcoholic drinks Learning Outcome: Explain the working of catalyst to effect the rate of reaction. 	Teacher uses power point presentation with interactive questions
 3.11.20 Tuesday 7th Period Mode of Teaching: Zoom 	 Learning Objective: Explain how the addition of a catalyst increases the rate of a reaction in terms of activation energy Recall that enzymes are biological catalysts and that enzymes are used in the production of alcoholic drinks Learning Outcome: Explain the working of catalyst to effect the rate of reaction. Appreciate the use of biocatalysts in our daily life 	Teacher uses power point presentation with interactive questions
3.11.20 Tuesday 7 th Period Mode of Teaching: Zoom 5.11.20	 Learning Objective: Explain how the addition of a catalyst increases the rate of a reaction in terms of activation energy Recall that enzymes are biological catalysts and that enzymes are used in the production of alcoholic drinks Learning Outcome: Explain the working of catalyst to effect the rate of reaction. Appreciate the use of biocatalysts in our daily life Learning Objective: To answer the questions, on Factors affecting rates 	Teacher uses power point presentation with interactive questions Worksheet
3.11.20 Tuesday 7 th Period Mode of Teaching: Zoom 5.11.20 Thursday	 Learning Objective: Explain how the addition of a catalyst increases the rate of a reaction in terms of activation energy Recall that enzymes are biological catalysts and that enzymes are used in the production of alcoholic drinks Learning Outcome: Explain the working of catalyst to effect the rate of reaction. Appreciate the use of biocatalysts in our daily life Learning Objective: To answer the questions, on Factors affecting rates of reaction and catalysts, in the worksheet. 	Teacher uses power point presentation with interactive questions Worksheet assigned through GC
 3.11.20 Tuesday 7th Period Mode of Teaching: Zoom 5.11.20 Thursday 4th Period 	 Learning Objective: Explain how the addition of a catalyst increases the rate of a reaction in terms of activation energy Recall that enzymes are biological catalysts and that enzymes are used in the production of alcoholic drinks Learning Outcome: Explain the working of catalyst to effect the rate of reaction. Appreciate the use of biocatalysts in our daily life Learning Objective: To answer the questions, on Factors affecting rates of reaction and catalysts, in the worksheet. Learning outcome: Students will be able to reinforce the concepts learned in the previous lesson by answering the questions in the 	Teacher uses power point presentation with interactive questions Worksheet assigned through GC.
3.11.20 Tuesday 7 th Period Mode of Teaching: Zoom 5.11.20 Thursday 4 th Period Mode of	 Learning Objective: Explain how the addition of a catalyst increases the rate of a reaction in terms of activation energy Recall that enzymes are biological catalysts and that enzymes are used in the production of alcoholic drinks Learning Outcome: Explain the working of catalyst to effect the rate of reaction. Appreciate the use of biocatalysts in our daily life Learning Objective: To answer the questions, on Factors affecting rates of reaction and catalysts, in the worksheet. Learning outcome: Students will be able to reinforce the concepts learned in the previous lesson by answering the questions in the worksheet. 	Teacher uses power point presentation with interactive questions Worksheet assigned through GC.
3.11.20 Tuesday 7 th Period Mode of Teaching: Zoom 5.11.20 Thursday 4 th Period Mode of Teaching:	 Learning Objective: Explain how the addition of a catalyst increases the rate of a reaction in terms of activation energy Recall that enzymes are biological catalysts and that enzymes are used in the production of alcoholic drinks Learning Outcome: Explain the working of catalyst to effect the rate of reaction. Appreciate the use of biocatalysts in our daily life Learning Objective: To answer the questions, on Factors affecting rates of reaction and catalysts, in the worksheet. Learning outcome: Students will be able to reinforce the concepts learned in the previous lesson by answering the questions in the worksheet. 	Teacher uses power point presentation with interactive questions Worksheet assigned through GC.

HOMEWORK: Complete the textbook questions SC18b: Factors affecting reaction rates - page 138 - 139

YEAR 11 G/H–CHEMISTRY (IGCSE)

WEEK 10 (1st Nov to 5th Nov)

Work Sent to the students through Google classroom/Zoom Learning Platform

Unit 3 – Topic: Acids, Alkalis and Titration.

Resources: Text book, Worksheet, IGCSE science free lesson video, power point.

Date	Lesson	Торіс	Mode of	
			Teaching	
01.11.2020	1 11 H	Lesson Objective Describe how to carry	Google	Teacher uses
		out an acid-alkali titration	Meet	power point to
Sunday	6 11G	Learning Outcome: Experiment the titration of hydrochloric acid with sodium hydroxide with methyl orange as the indicator.	200 m	explain acid ,bases and neutral solutions
		Observe the colour change at the end- point of the titration. Repeat the experiment till concordant results are obtained.		questions to assess the concepts of neutralization
		Predict that the salt is obtained by evaporation.		
02.11.2020	2 11H	Lesson Objective: To calculate an	Google	Teacher uses a
Monday	5 11G	unknown concentration of a solution Learning Outcome: Carry out simple calculations using the results of titrations to calculate an unknown concentration of a solution or an unknown volume of solution required.	Meet zoom	PowerPoint presentation/vide o that contains interactive questions
03.11.2020	3 11H	Lesson Objective: Identify the soluble	Google	Teacher uses a
Tuesday	1 11G	 salts from a set of examples. Recall acids as proton donor and a base as an proton acceptor Learning Outcome: know the general rules for predicting the solubility of 	Meet zoom	PowerPoint presentation/ video to explain identification of soluble salts.
		ionic compounds in water:		
	4 11H	Lesson Objective: Understand that an acid is a proton donor and a base is a	Google Meet	Instruction will be given in the GC room to

	2 11G	 proton acceptor Write balanced chemical equations for the reaction of acids with hydroxides, carbonates and oxides of the listed metals. Know that metal oxides, metal hydroxides and ammonia can act as bases, and that alkalis are bases that are soluble in water Learning Outcome: Define acids and bases in terms of proton transfer, limited to aqueous solutions Describe the reactions of hydrochloric acid, sulfuric acid and nitric acid with metals, bases and metal carbonates (excluding the reactions between nitric acid and metals) to form salts. Classify oxides as either acidic or basic, related to metallic and non-metallic character Differentiate alkalis are bases based on solubility 	zoom	complete the textbook and worksheet questions.
05.11.2020	5 11H	solubility. Lesson Objective: Assessment 3	Google	Teacher uses
Thursday	4 11G	Learning Outcome: Reinforce the concepts of chemical equilibrium and acids and salts with multiple choice and structured questions.	Meet zoom	Google forms to assess the students.