

YEAR 9 A to F – CHEMISTRY

WEEK 42 (13th June to 17th June)

Work Sent to the students through Group email/ Google classroom

Topic:– Core Practical on Chromatography

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

Date	Lesson	Topic	Mode of Teaching	
13 th Jun Sunday (girls)	6	Learning Objective : Investigate the composition of inks using paper chromatography. Success Criteria:	Zoom	Video on virtual practical on chromatography
14 th Jun Monday (boys)	7	<ul style="list-style-type: none"> • Describe how some mixtures can be separated by chromatography. • Identify pure substances and mixtures on chromatograms. • Identify substances that are identical on chromatograms. 		
14 th Jun Monday (girls)	5	Learning Objective : Describe the procedure of chromatography and calculate the R_f value. Success Criteria:	Zoom	Video on virtual practical on chromatography
14 th Jun Monday (boys)	8	<ul style="list-style-type: none"> • Draw and interpret diagrams showing how chromatography is done. • Explain how substances can be separated by chromatography. • Calculate R_f values and use them to identify substances. 		
14 th Jun Monday (girls)	6	Learning Objective : Reinforce To answer the questions, on chromatography in the worksheet. Success Criteria:	GC	Worksheet on core practical on chromatography.
16 th Jun Wednesday – (boys)	1	<ul style="list-style-type: none"> • Students will be able to reinforce the concepts learned in the previous lesson on how the composition of ink can be detected using chromatography by answering the questions in the worksheet. 		

YEAR 10 A to F – CHEMISTRY

WEEK 42 (13th June to 17th June)

Work Sent to the students through Google classroom

Topic: The changing atmosphere, Core practical: Identify the ions in unknown sample

Resources: Text book, Worksheet, power point & video

Date	Lesson	Topic	Mode of Teaching	
13/6/2021 Sunday	0	<p>Learning Objective:</p> <ol style="list-style-type: none"> 1. Explain how the amount of carbon dioxide in the atmosphere was decreased when carbon dioxide dissolved as the oceans formed. 2. Explain how the growth of primitive plants used carbon dioxide and released oxygen by photosynthesis and consequently the amount of oxygen in the atmosphere gradually increased. <p>Learning Outcome:</p> <ul style="list-style-type: none"> • Describe how the formation of the oceans influenced the composition of the atmosphere. • Explain how photosynthetic organisms (including plants) changed the composition of the atmosphere. • State the chemical test for oxygen. 	GM	Teacher use powerpoint presentation that contain Interactive questions.
14/6/2021 Monday	1&2	<p>Learning Objective:</p> <p>Core Practical: Identify the ions in unknown salts, using the tests for the specified cations and anions</p> <p>Learning Outcome:</p> <ul style="list-style-type: none"> • Reviews the test for carbonates, sulphates, and halides, predict the salts present. • Experiments and identifies the ions in a given unknown sample. 	GM	Teacher use video and worksheet to complete the core practical
13/6/2021 Sunday & 16/6/2021 Wednesday	3 & 3		Zoom	
15/6/2021 Wednesday	4	<p>Learning Objective:</p> <p>To answer the questions, in the worksheet.</p> <p>Learning outcome:</p> <p>Students will be able to reinforce the concepts learned by answering the questions in the worksheet.</p>	GC	Instruction will be given in the Google classroom to complete the Worksheet.

Home work: Solve S1 and E1 questions (pg no.165)

YEAR 11 A/D/E – CHEMISTRY

WEEK 42 (13th June to 17th June)

Work Sent to the students through Google classroom

Date	Topic	
13.06.21 Sunday 8 th period Mode of Teaching: Zoom	Learning Objective: To find the empirical formula using combustion data. Learning outcome: To recall that the products of complete combustion are carbon dioxide and water. To use the data obtained from combustion to find the empirical formula of the given organic compounds	Worksheet on combustion analysis
14.06.21 Monday 4 th period Mode of Teaching: Zoom	Learning Objective: To find the empirical and molecular formula using combustion data. Learning outcome: To use the data obtained from combustion to find the empirical formula and molecular formula of the given organic compounds	Worksheet on combustion analysis
16.06.21 Wednesday 8 th period Mode of Teaching: GC	Learning Objective: To find the empirical and molecular formula using combustion data. Learning outcome: To use the data obtained from combustion to find the empirical formula and molecular formula of the given organic compounds	Worksheet assigned on GC

YEAR 11 B/C/F – CHEMISTRY (Boys)

WEEK 42 (13th June to 17th June)

Work Sent to the students through Google classroom

Date	Topic	
13.06.21 Sunday 1 st & 2 nd period Mode of Teaching: Zoom	Learning Objective: To find the empirical formula using combustion data. Learning outcome: To recall that the products of complete combustion are carbon dioxide and water. To use the data obtained from combustion to find the empirical and molecular formula of the given organic compounds	Worksheet on combustion analysis
14.06.21 Monday 3 rd Period Mode of Teaching: GC	Learning Objective: To find the empirical and molecular formula using combustion data. Learning outcome: To use the data obtained from combustion to find the empirical formula and molecular formula of the given organic compounds	Worksheet assigned on GC
15.06.21 Tuesday 7 th Period Mode of Teaching: GC	Learning Objective: To find the empirical and molecular formula using combustion data. Learning outcome: To use the data obtained from combustion to find the empirical formula and molecular formula of the given organic compounds	Worksheet assigned on GC

YEAR 11 G/H-CHEMISTRY (IGCSE)

WEEK 42 (13th June to 17th June)

Work Sent to the students through Google classroom

Date	Topic	
13.06.21 Sunday 6 th period Mode of Teaching: Zoom/ Google Meet	Learning Objective: To find the empirical formula using combustion data. Learning outcome: To recall that the products of complete combustion are carbon dioxide and water. To use the data obtained from combustion to find the empirical formula of the given organic compounds	Worksheet on combustion analysis
14.06.21 Monday 5 th period Mode of Teaching: Zoom/ Google Meet	Learning Objective: To find the empirical and molecular formula using combustion data. Learning outcome: To use the data obtained from combustion to find the empirical formula and molecular formula of the given organic compounds	Worksheet on combustion analysis
15.06.2021 Tuesday 1 st & 2 nd period Mode of Teaching: GC	Learning Objective: To find the empirical and molecular formula using combustion data. Learning outcome: To use the data obtained from combustion to find the empirical formula and molecular formula of the given organic compounds	Worksheet assigned on GC

YEAR 12 D/G– CHEMISTRY

Week 42 - (13th June – 17th June)

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

Resources: Text book, Worksheet, Video, Board works, power point

Date	Topic	
16.06.21 Wednesday 1, 2 - 12G 7,8- 12D Mode of Teaching – ZOOM	Learning Objective: CORE PRACTICAL 6 Investigate the chlorination of 2-methylpropan -2-ol	Teacher uses video and worksheet to complete the core practical 6 .
14.06.21 Monday 7,8 – 12G 15.6.21 Tuesday 7 10.6.21 ZOOM	Learning Objective: To deduce an expression for K_p , for homogeneous and heterogeneous systems, in terms of equilibrium partial pressures in atm. To calculate a value, with units where appropriate, for the equilibrium constant K_p for homogeneous and heterogeneous reactions, from experimental data. Success Criteria: students will be able to: Write the expression of K_p . Determine the value of K_p . Find the unit of K_p from the substituted concentration	Teacher uses past paper and worksheet to solve question on K_p

YEAR 13 A/B – CHEMISTRY

Week 42 : (13th June– 17th June)

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

Topic:–Buffers (Reinforcement)

Resources: Text book, Worksheet file, video, power point presentations.

Date	Topic	
13.06.21 Sunday 1-13A ,4-13B Mode of Teaching –GC	Lesson Objective: Buffers in human body Part 1 Success Criteria: Understand the importance of buffer in our life	Video, Textbook and power point
13.06.21 Sunday -2-13 A 08.06.2021 Tuesday - 2-13B Mode of Teaching –GC	Lesson Objective: Buffers in human body. Success Criteria: students will be able to: Watch the video and a short note. https://www.youtube.com/watch?v=tC9EfkOe8IQ	Video , worksheet and power point
16.06.2021 Wednesday - 4- 13A 2-13B Mode of Teaching – Zoom/GC	Lesson Objective: Acidosis and Alkalosis Success Criteria: students will be able to: Watch the video and write a report https://www.youtube.com/watch?v=w3nsxx6AcdA	Video , worksheet and power point

YEAR 13 A/B – CHEMISTRY

Week 42 : (13th June– 17th June)

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

Topic:–Buffers (Reinforcement)

Resources: Text book, Worksheet file, video, power point presentations.

Date	Topic	
13.06.21 Sunday -5 ,8 13B 16.06.21 Wednesday 5 , 6 13A Mode of Teaching – Zoom /GC	Lesson Objective: -calculations to find pH of given buffer solutions, find the concentration of the different components needed to make a buffer of a given pH. -enthalpy changes of neutralisation values for strong and weak acids. Success Criteria: students will be able to: -the concentrations of solutions required to prepare a buffer solution of a given pH. -Understand how to use a weak acid–strong base titration curve to demonstrate buffer action	Video and Textbook
13.06.21 Sunday - 3 13A 15.06.21 Tuesday - 1 13B Mode of Teaching – Zoom/GC	Lesson Objective: Analyze the effect of PH on planets Success Criteria: students will be able to: Research and write a summary of your findings.	Internet

