

YEAR 11 A - F – CHEMISTRY

WEEK 4 (20th Sept to 24th Sept)

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

Topic:– SC14e: Molar volume of gases

Resources: Text book, Worksheet, Boardworks power point

Date	Lesson	Topic	
20.09.20 Sunday (girls)	8	Learning Objective: Carry out simple calculations using the results of titrations.	Teacher uses powerpoint presentation that contains interactive questions, to explain the calculations.
20.09.20 Sunday (Boys)	1 Zoom	Learning Outcome: Calculate an unknown concentration of a solution or an unknown volume of solution required.	
21.09.20 Monday (Girls)	4	Learning Objective: Describe the molar volume, of any gas at room temperature and pressure, as the volume occupied by one mole of molecules of any gas at room temperature and pressure.	Teacher uses powerpoint presentation that contains interactive questions to explain molar volume of gases.
20.09.20 Sunday (Boys)	2 Zoom	Learning Outcome: Describe what is meant by the molar volume of a gas.	
23.09.20 Wednesday (Girls)	8	Learning Objective: Use the molar volume and balanced equations in calculations involving the masses of solids and volumes of gases.	Teacher uses powerpoint presentation to explain the calculations involving masses of solids and volumes of gases.
21.09.20 Monday (Boys)	3 Zoom	Learning Outcome: Use the molar volume in calculations involving solids and gases in reactions.	
24.09.20 Thursday (Girls)	5	Learning Objective: Use Avogadro's law to calculate volumes of gases involved in a gaseous reaction, given the relevant equation	Teacher uses powerpoint presentation that contains interactive questions, to explain the calculations.
22.09.20 Tuesday (Boys)	7 Zoom	Learning Outcome: Recall Avogadro's law. Use Avogadro's law to calculate the volumes of reacting gases.	
24.09.20 Thursday (Girls)	6	Learning Objective: To answer the questions, on Molar gas volume, in the worksheet.	Worksheet assigned through GC.

24.09.20 Thursday (Boys)	4 GC	Learning outcome: Students will be able to reinforce the concepts learned in the previous lesson by answering the questions in the worksheet	Instruction will be given in the GC to complete the worksheet and turn in
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HOMEWORK: Complete the textbook questions SC14e:Molar volume of gases- page 118-119

YEAR 11 G/H-CHEMISTRY (IGCSE)

WEEK 4 (20th Sept to 24th Sept)

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

Unit 3 – Chapter 19: Energetics

Topic: Use bond energies to calculate the enthalpy change during a reaction.

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

Date	Lesson	Topic	Mode of Teaching	
20.09.2020 Sunday	1 11H 6 11G	Lesson Objective: Define exothermic and endothermic reactions. Learning Outcome: know that chemical reactions in which heat energy is given out are described as exothermic, and those in which heat energy is taken in are described as endothermic	Zoom	Teacher uses video of example of exothermic and endothermic reactions.
21.09.2020 Monday	2 11H 5 11G	Lesson Objective: Describe simple calorimetry experiments for reactions such as combustion, displacement, dissolving and neutralization. Learning Outcome: Discuss and plan experiments to investigate the heat energy changes accompanied by reactions such as combustion, displacement, dissolving and neutralization.	Zoom	Teacher uses PowerPoint presentation that contains interactive questions.
22.09.2020 Tuesday	3 11H 1 11G	Lesson Objective: Calculate the heat energy change from a measured temperature change using the expression $Q = mc\Delta T$ Learning Outcome: Develop skill in calculating energy change for the reaction using experimental data.	Zoom	Teacher uses PowerPoint presentation and video to explain the heat energy change.

	4 11H 2 11G	<p>Lesson Objective: Calculate the molar enthalpy change (ΔH) from the heat energy change, Q</p> <p>Learning Outcome: Develop skill in calculating enthalpy change for the reaction using experimental data. Appreciate the use of sign +/- in enthalpy change calculation.</p>	GC	Instruction will be given in the GC room to complete the textbook and worksheet questions.
24.09. 2020 Thursday	5 11H 4 11G	<p>ASSIGNMENT Portion. Chapter 5 & 6</p>	Zoom	Teacher uses PowerPoint presentation that contains interactive questions