YEAR 12 D/G – CHEMISTRY

WEEK 11 (8th November to 12th November)
Work Sent to the students through Zoom Learning Platform / Google classroom
Topic:– Standard enthalpy change of formation and Hess's law
Resources: Text book, Worksheet file, video, power point presentations.

Date	**Topic**	**Mode of Teaching**	
9.11.2020 Monday 3 **12D** 10.11.2020 Tuesday 1 **12G**	**Lesson Objective:** To calculate enthalpy changes from data using Hess's Law **Learning Outcome:** • Interpret that for some reactions the change in enthalpy cannot be measured directly. • construct enthalpy cycles using Hess's Law • Predict ΔHf from ΔHc • Calculates ΔHr from ΔHf	Zoom	Teacher uses power point presentation that contains interactive question.
10.11.2020 Tuesday 2 **12G** 7 **12D**	**Learning Objective** To reinforce the concepts such as Hess's law, Standard enthalpy change of formation and calculation of enthalpy changes using Hess's cycle. **Learning Outcome:** • Define standard enthalpy change of formation • State Hess's law • How Hess's law can be used to determine enthalpy changes of reactions that cannot be determined directly • calculate enthalpy changes using Hess's cycle	Zoom	Teacher uses power point presentation that contains interactive questions to reinforce the concepts such as Hess's law and calculation of enthalpy changes.
11.11.2020 Wednesday 2 **12G**	**Learning Objective:** To answer the questions, on Hess's law and calculation of enthalpy changes using Hess's cycle , 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.	GC	Instruction will be given in the Google classroom to complete the Worksheet.

HOMEWORK: Complete the textbook questions on page 241

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WEEK 11 (8th Nov to 12th November)

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Topic 2 – Redox reactions : oxidation and reduction in terms of loss /gain of electrons .
Resources: Text book, Worksheet, Video , Board works , power point

Date	Topic	
10.11.20 Tuesday 8 **12D** 9.11.20 Monday 6 **12G** **Mode of Teaching –** Zoom	**Learning Objective:** - writing balanced ionic half equations. - recall all steps in balancing ionic half equation. -identification of oxidant and reductant. **Learning Outcome: students will be able to:** -recall that oxidizing agents gain electrons -Site some examples of oxidizing agents - explain how reduction occurs using the changes in the oxidation number. -recall reducing agents lose electrons - Be able to write ionic half-equations and use them to construct full ionic equations.	Teacher uses power point to show rules to calculate oxidation number. Instructions will be given to complete chapter questions.
9.11.20 Monday 7- **12G** 11.11.20 Wednesday 7- **12D** **Mode of Teaching –** ZOOM	**Learning Objective:** Writing complete balanced equation from two half ionic equations **Learning Outcome: students will be able to:** -equate the number of electron in half equations -add two half equations -classify the reaction as disproportionation of redox.	Teacher uses power ppt and videos to explain the concept of oxidation and reduction. Teacher uses worksheet that contains interactive questions, to explain redox concept based on OIL RIG
11.11.20 Wednesday **8- 12D** **1-12G** **Mode of Teaching –** zoom	**Learning Objective:** Write ionic half-equations and use them to construct full ionic equations in unknown situation. **Learning Outcome:** Combine ionic equations to give balanced redox equations for the given uncommon chemical reactions. Justify the given equation as an example of redox reaction. Solve **some** examples to construct half ionic equations with state symbols.eg-iron (II) sulphate with iodine	Teacher uses power point presentation and videos to explain the concept of oxidation and reduction. Teacher uses worksheet that contains interactive questions, to explain redox concept based on OIL RIG

HOMEWORK: Solve exam style questions from text book.