

YEAR 12 G /D – CHEMISTRY

WEEK 12 (15th Nov to 19th Nov)

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

Topic:– Standard enthalpy change of formation and Hess’s law, Bond enthalpy and mean bond enthalpy

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

Date	Topic	Mode of Teaching	
16.11.2020 Monday 3 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.	Zoom	Teacher uses power point presentation that contains interactive questions to reinforce the concepts such as Hess’s law and calculation of enthalpy changes.
17.11.2020 Tuesday 1 12G	Learning Outcome: <ul style="list-style-type: none"> • 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 		
17.11.2020 Tuesday 2 12G	Learning Objective: To answer the questions, on Hess’s law and calculation of enthalpy changes using Hess’s cycle , in the text book(exam style questions).	Zoom	Instruction will be given in the Zoom to solve exam style questions.
7 12D	Learning outcome: Students will be able to reinforce the concepts learned in the previous lesson by answering the exam style questions in the textbook.		
18.11.2020 Wednesday 2 12G	Learning Objective: <ul style="list-style-type: none"> • Know what is meant by the terms ‘bond enthalpy’ and ‘mean bond enthalpy’ • Be able to calculate an enthalpy change of reaction using mean bond enthalpies and explain the limitations of this method of calculation 	Zoom	Teacher uses power point presentation to explain bond enthalpy, mean bond enthalpy and energy changes in reactions.
19.10.2020 Thursday 7 12D	Learning outcome: <ul style="list-style-type: none"> • Reviews bond enthalpy and its applications. • Analyze the method to find bond enthalpy. • Calculate the enthalpy of a reactions from the given data of average bond enthalpies 		

HOMEWORK: Complete the textbook questions on page 243

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Topic 4 – INORGANIC CHEMISTRY AND THE PERIODIC TABLE

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

Date	Topic	
17.11.20 Tuesday 8 12D 16.11.20 Monday 6 12G Mode of Teaching – Zoom	Learning Objective: Introduction to group 1 and elements Understand reasons for the trend in ionisation energy down Group 2 Learning Outcome: students will be able to: State why these are regarded as s block elements. Revise s p d f configuration from module 1 – apply to elements from Group II – idea that all outer electrons are in s sub-shell. Predict trends within group, limited to electronic configuration, atomic radius and first ionisation energy.	Teacher uses power point to show rules to recap basics of organic linking to GCSE level.
16.11.20 Monday 7- 12G 18.11.20 Wednesday 7- 12D Mode of Teaching – ZOOM	Learning Objective: Understand reasons for the trend in reactivity of the Group 2 elements down the group. Learning Outcome: students will be able to: Apply the reactions to identify the trend in reactivity as the group is descended.	Teacher uses power point presentation and videos to explain the concept of reactivity of elements. Teacher uses worksheet that contains interactive questions, to explain the trend.
18.11.20 Wednesday 8- 12D 1-12G Mode of Teaching – GC	Learning Objective: Know the reactions of the elements Mg to Ba in Group 2 with oxygen, chlorine and water Learning Outcome: students will be able to: Write equations and record observations for the reaction of calcium with steam. Predict the reaction of calcium with acids. Applies the reactions to identify the trend in reactivity as the group is descended.	Teacher uses power point presentation and videos to explain the concept of reactions Teacher uses worksheet that contains interactive questions, to explain trend in reactivity.

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HOMEWORK: Solve exam style questions from text book.