YEAR 9 (A- F) – CHEMISTRY

WEEK 31 (18th April to 22nd April)

Work Sent to the students through Group email/ Google classroom Topic:- SC7d - Bonding Models

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

Date	Lesson	Торіс	Mode of Teaching	
18 th April Sunday (girls)	6	 Learning Objective : Explain why elements and compounds can be classified as a ionic b constant simple melecular 		
19 th April Monday (boys)		 b covalent, simple molecular c covalent, giant molecular d metallic Success Criteria: Compare the structure and bonding in ionic, covalent and metallic structures. Compares the physical properties like melting and boiling point in these structures. 	Zoom	PPT / Video on Bonding Models
19 th April Monday (girls)	5	Learning Objective :How the structure and bonding of these types of substances results in different physical properties,		
19 th April Monday (boys)	8	 substances results in unreferrent physical properties, including relative melting point and boiling point, relative solubility in water and ability to conduct electricity (as solids and in solution) Success Criteria: Explain how the structure and bonding of a substance is linked to its physical properties. (Relative melting point and boiling point, relative solubility in water and ability to conduct electricity, as solids and in solution.) Explain why we use models to represent structure and bonding. 	Zoom	PPT / Video on Bonding Models
19 th April Monday (girls)	6	 Learning Objective : Describe the limitations of particular representations and models to include dot and cross, ball and stick models and two- and three dimensional representations. 		
21 st April Wednesday – (boys)	1	 Success Criteria: Represent structures and bonding using a variety of different models (dot and cross, ball and stick, 2D, 3D). Describe the limitations of the different models used to represent structure and bonding (dot and cross, ball and stick, 2D, 3D). 	GC	Worksheet SC7d

YEAR 10 A/D/E-CHEMISTRY (girls)

WEEK 31 (18th April to 22nd April)

Work Sent to the students through Google classroom

Topic: Electrolysis

Resources: Text book, Worksheet, power point.

Date	Lesson	Торіс	Mode of	
			Teaching	
18/4/2021 Sunday	3	Learning Objective: To reinforce alloying, uses of metals and their alloys, by discussing the questions in the textbook and worksheet Learning Outcome: • Explain, using models, why converting pure metals into alloys often increases the strength of the product • Explain how the uses of metals are related to their properties (and vice versa), including aluminium, copper and gold and their alloys including magnalium and brass	Zoom	Teacher uses powerpoint presentation to reinforce the concepts.
21/4/2021 Wednesday & 22/4/2021 Thursday	3 & 2	 Learning Objective: To reinforce electrolysis, products from electrolysis, electroplating and corrosion Learning Outcome: Recall electrolysis. Identify the products of electrolysis. Write half equations for reactions occurring at the and and cathode in electrolysis. How do you explain and represent the reactions taking place at the electrodes in electrolysis? Draws diagrams for the set up of electrolytes. 	Zoom	Teacher uses powerpoint presentation to revise the topics.
22/4/2021 Thursday	3	Learning Objective: To answer the questions, in the revision worksheet. Learning outcome: Students will be able to reinforce the concepts learned by answering the questions in the revision worksheet.	GC	Instruction will be given in the Google classroom to complete the Worksheet.

Home work: Solve revision worksheet

YEAR 10 B/C/F-CHEMISTRY (Boys)

WEEK 31 (18th April to 22nd April)

Work Sent to the students through Google classroom

Topic: Electrolysis

Resources: Text book, Worksheet, power point.

Date	Lesson	Торіс	Mode of	
			Teaching	
18/4/2021 Sunday	0	 Learning Objective: To reinforce alloying, uses of metals and their alloys, by discussing the questions in the textbook and worksheet Learning Outcome: Explain, using models, why converting pure metals into alloys often increases the strength of the product Explain how the uses of metals are related to their properties (and vice versa), including aluminium, copper 	Google Meet	Teacher uses powerpoint presentation to reinforce the concepts.
		and gold and their alloys including magnalium and brass		
19/4/2021 Monday	1&2	 Learning Objective: To reinforce electrolysis, products from electrolysis, electroplating and corrosion Learning Outcome: Recall electrolysis. Identify the products of electrolysis. Write half equations for reactions occurring at the anod and cathode in electrolysis. How do you explain and represent the reactions taking place at the electrodes in electrolysis? Draws diagrams for the set up of electrolytes. 	Google Meet	Teacher uses powerpoint presentation to revise the topics.
21/4/2021 Wednesday	4	Learning Objective: To answer the questions, in the revision worksheet. Learning outcome: Students will be able to reinforce the concepts learned by answering the questions in the revision worksheet.	GC	Instruction will be given in the Google classroom to complete the Worksheet.

Home work: Solve revision worksheet

YEAR 12 D/G- CHEMISTRY

WEEK 31 (18th April to 22nd April)

Work Sent to the students through Zoom Learning Platform / Google classroom Topic 6D: Halogenoalkanes

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

Date	Торіс	
20.04.21 Tuesday	Learning Objective: know that halogenoalkanes can be classified as primary secondary or tertiary.	Teacher uses power point to show various
8 12D 19.04.21 Monday 6 12G	Learning Outcome: students will be able to: Write the molecular and structural formulae of halogenoalkanes with up to two halogen atoms and up to six carbon atoms.	types of formulae representation of halogenoalkanes . Lesson will be
Mode of Teaching – Zoom	Use IUPAC rules to name halogenalkanes containing up to two halogen atoms and up to three /six carbon and identify primary ,secondary and tertiary.	developed with many examples.
19.04.21 Monday 7- 12G	Learning Objective: reactions of halogenoalkanes. Learning Outcome: students will be able to: Define nucleophile with examples. understand the reactions of halogenoalkanes with:	Teacher uses power point presentation for various reactions.
21.04.21 Wednesday 7- 12D Mode of Teaching – ZOOM	 aqueous potassium hydroxide to produce alcohols (where the hydroxide ion acts as a nucleophile) aqueous silver nitrate in ethanol (where water acts as a nucleophile) potassium cyanide to produce nitriles (where the cyanide ion acts as a nucleophile) Students should know this as an example of increasing the length of the carbon chain. ammonia to produce primary amines (where the ammonia molecule acts as a nucleophile) 	Teacher uses worksheet that based on various types of reactions of haloalkanes.
21.04.21 Wednesday 8- 12D 1-12G Mode of Teaching – zoom	 Learning Objective: mechanism of nucleopillic substitution. Learning Outcome: students will be able to: Represent mechanism of nucleophillic substitution reactions in haloalaknes, using following examples for reaction of haloalkane with: i) aqueous potassium hydroxide potassium cyanide to produce nitriles (where the cyanide ion acts as a nucleophile) ammonia to produce primary amines (where the ammonia molecule acts as a nucleophile) 	Teacher uses questions from various past papers. Teacher uses worksheet that exam style questions from text book.

HOMEWORK: Solve exam style questions from given work sheet.

YEAR 12 G /D – CHEMISTRY

WEEK 31 (18th April to 22nd April)

Work Sent to the students through Zoom Learning Platform / Google classroom Topic:– Alternative Fuels

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

Date	Торіс	
19.04.2021	Lesson Objective:	
Monday	Know that alkanes are used as fuels and obtained from	Teacher uses PowerPoint
3 12D	the fractional distillation, cracking and reformation of	presentation that contains
	crude oil	interactive questions.
20.04.2021		
Tuesday	Learning Outcome:	
1 12G	Predict the environmental problems associated with	
	spillage and the combustion of hydrocarbons	
Mode of		
Teaching:		
Zoom		
	Lesson Objective:	
20.04.2021	Discuss the reasons for developing alternative fuels in	Teacher uses PowerPoint
Tuesday	terms of sustainability and reducing emissions,	presentation that contains
2 12G	including the emission of CO_2 and its relationship to	interactive questions.
	climate change	
7 12D	Learning Outcome:	
	A simple account of the role of catalytic converters in	
Mode of	reducing the environmental damage due to vehicle	
Teaching:	emissions by facilitating the conversion of carbon	
Zoom	monoxide to carbon dioxide, of unburnt hydrocarbons	
	to carbon dioxide and water and of NOx to nitrogen;	
	catalyst poisoning by lead.	
21.04.2021	Lesson Objective	
Wednesday	To answer the exam - style questions based on alkanes	Work assigned through
2 12G	as fuels and alternative fuels	GC.
2 120		Instruction will be given
22.04.2021	Learning Outcome:	in the GC to complete
Thursday	Students will be able to reinforce the concepts learned	the work.
7 12D	in the previous lesson by answering the questions.	
Mode of		
Teaching:		
GC		

HOMEWORK: Complete the textbook questions Q1 - Q2, on page 183.