

YEAR 10 A/D/E–CHEMISTRY (girls)

WEEK 8 (10th May to 14th May)

Work Sent to the students through Group email/ Google classroom

Lesson Objective : Composite materials and Nanoparticles.

Learning Outcome : Define composite materials and nanoparticles.

Suggest uses of composite materials and nanoparticles.

Explain the risks of nanoparticles

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

Date	Lesson	Topic	Mode of Teaching	
11 th May Sunday	5	Recall what composite materials are and give some examples. Explain why the properties of a composite material make it suitable for a given use. Select suitable materials, including composite materials, for a particular purpose using given data.	Zoom	Teacher uses powerpoint presentation that contains interactive questions on how and why composite materials are chosen for particular uses.
12 th May Monday	5	Compare the relative sizes of nanoparticles, atoms and molecules. Calculate the surface area to volume ratio of a nanoparticle.	Zoom	Teacher uses powerpoint presentation that contains interactive questions.
	6	Discussion of Chapter Questions & Worksheet file questions of Composite materials	GC	Instruction will be given in the Google class room to complete the textbook and worksheet file questions.
13 th May Tuesday	8	Relate the uses of nanoparticulate materials to their properties. Evaluate the use and impact of nanoparticulate materials on human life and on environment	Zoom	Teacher uses powerpoint presentation that contains interactive questions on how and why nanoparticulate materials are chosen for particular uses.

YEAR 10 B/C/F–CHEMISTRY (boys)

WEEK 8 (10th May to 14th May)

Work Sent to the students through Group email/ Google classroom

Lesson Objective: Composite materials and Nanoparticles.

Learning Outcome : Define composite materials and nanoparticles.

Suggest uses of composite materials and nanoparticles.

Explain the risks of nanoparticles.

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

Date	Lesson	Topic	Mode of Teaching	
10 th May Sunday	0	Recall what composite materials are and give some examples. Explain why the properties of a composite material make it suitable for a given use. Select suitable materials, including composite materials, for a particular purpose using given data.	Zoom	Teacher uses powerpoint presentation that contains interactive questions on how and why composite materials are chosen for particular uses.
11 th May Monday	8	Compare the relative sizes of nanoparticles, atoms and molecules. Calculate the surface area to volume ratio of a nanoparticle.	Zoom	Teacher uses powerpoint presentation that contains interactive questions.
12 th May Tuesday	3	Relate the uses of nanoparticulate materials to their properties. Evaluate the use and impact of nonparticulate materials on human life and on environment	Zoom	Teacher uses powerpoint presentation that contains interactive questions on how and why nanoparticulate materials are chosen for particular uses.
	4	Discussion of Chapter Questions & Worksheet file questions of Composite materials	GC	Instruction will be given in the Google class room to complete the textbook and worksheet file questions.

YEAR 10 G/H-CHEMISTRY (IGCSE)

WEEK 8 (10th May to 14th May)

Work Sent to the students through Group email/ Google classroom

Unit 2 – Extraction and uses of metals

Lesson Objective: To outline the method of separating metals from their ores.

Learning Outcome: Understand the reaction happen to ores when metals are extracted.

Develop the relationship between extraction method and position in reactivity series.

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

Date	Lesson	Topic	Mode of Teaching	
10 th May Sunday	7	Know that most metals are extracted from ores found in the Earth's crust. Explain how the method of extraction of a metal is related to its position in the reactivity series, illustrated by carbon extraction for iron and electrolysis for aluminium.	Zoom	Teacher uses powerpoint presentation that contains interactive questions.
	8	Analyse that the extraction of metals involves reduction of ores. Write the balanced equation of the extraction of different metals . Identify the substance which has undergone oxidation and reduction.	Zoom	Shows the video to understand the process of extraction of iron and aluminium.
11 th May Monday	1	List uses of metals and relate these uses to their properties. Define alloys. Justify the properties of alloys based on the structure.	Zoom	Teacher uses powerpoint presentation to show the importance of alloying and the uses of different types of steel.
12 th May Tuesday	3	Ch.15: Extraction and uses of metals. Read pg. 160 - 165 of text bk. Answer Chapter Questions on pg. 165-166 and Worksheet file questions on pg. 51-52	GC	Instruction will be given in the GC room to complete the textbook and worksheet questions.