

YEAR 10 A-F Physics (GCSE)

WEEK 8 (18th October to 22nd October)

Topic: Radioactivity

Lesson Objective: Half life

Resources: Student text book, worksheet file, interactive power point from Board works and Online animations

Worksheets and Zoom link will be posted in google classroom

Date	Lesson	Lesson objectives & Learning outcome	Mode of Teaching	
18 th Oct Sunday (Boys)	1	L.O: To discuss the questions given in google classroom session	Zoom	Teacher discuss the answers on balancing nuclear equations for mass and charges and AFL will be given in google form
18 th Oct Sunday (girls)	2	Learning outcome: The students will be able to reinforce the concepts of radioactive decay and analyze their answers.		
20 th Oct Tuesday (Boys)	5	L O: Explain that the half-life of a radioactive isotope is the time taken for half the undecayed nuclei to decay or the activity of a source to decay by half.	Zoom	Teacher uses a ppt to explain that the half-life of a radioactive isotope Uses animation to show the decay process occurring in an unstable isotope and to identify the half life of a substance from the given graph of activity against time
21 st Oct Wednesday (girls)	5	Learning outcome: Students will be able to <ul style="list-style-type: none"> • Describe how the activity of a substance changes over time. • State how half-life can be used to describe the changing activity of a substance. • Recall the unit of activity. 		
20 th Oct Tuesday (Boys)	6	L.O: Solve the worksheet to determine the half life of a substance	GC	The worksheet with data to plot activity time graph will be posted in the GC. Students will work on the graph of activity v/s time
21 st Oct	6	Learning outcome: Students will be able to plot the graph of corrected readings against time and use it determine		

Wednesday (girls)		the half life of the sample .		(graph parer) and calculate the half life of the given sample and turn in their answers
22 nd Oct Thursday (Boys)	4	L.O: Use the concept of half-life to carry out simple calculations on the decay of a radioactive isotope, including graphical representations. Learning outcome: Students will be able to	Zoom	Teacher will work out few examples to calculate the half life. Using a ppt teacher will demonstrate the step by step working involved in solving problems to determine half lives. Students will solve more questions on the topic.
22 nd Oct Thursday (Girls)	1	<ul style="list-style-type: none"> • Describe how half-life can be used to work out how much of a substance will decay in a certain time. • Carry out calculations involving half-life. 		

