YEAR 10 (A-F) - PHYSICS

WEEK 6 (4th October to 8th October)

Topic: Radioactivity

Lesson Objective: SP 6c-electrons and Orbits

SP6e-Types of radiation

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	Mode of	
		outcome	Teaching	
4 th October Sunday (Boys) 4 th October Sunday (girls)	2	L.O: Explain that electrons change orbit when there is absorption or emission of electromagnetic radiation. Explain evidence and characteristics of the Bohr model Learning outcome: The students will be able to Recall that in each atom its electrons orbit the nucleus at different set distances from the nucleus Explain that electrons change orbit when there is absorption or emission of electromagnetic radiation Describe some of the evidence for the Bohr model of the atom.	Zoom	Teacher uses a ppt to discuss what happens when electron in an atom gains energy ,and to differentiate between emission and absorption spectra And to explain how Bohr model of atom is different from Rutherford model
6th October Tuesday (Boys) 7th October Wednesday (girls	5	 L O: Explain how atoms may form positive ions by losing outer electrons. Learning outcome: Students will be able to Recall what an ion is. Describe how ionisation occurs. 	Zoom	Teacher use a ppt to explain what is ionization and how it occurs Teacher will discuss the answers of the textbook questions
6 th October	6	L.O: Describe the different process of	Zoom	

Tuesday (Boys) 7th October Wednesday (girls)	6	radioactive decay Compare alpha, beta and gamma radiations in terms of their abilities to penetrate and ionize Learning outcome: Students will be able to List five types of radiation that are emitted in random processes from unstable nuclei. State which types of radiation are ionising radiations. Describe what alpha and beta particles are and the nature of gamma radiation. Compare the penetrating and ionising abilities of alpha, beta and gamma radiation.		Teacher uses powerpoint presentation to discuss the properties of alpha, beta and gamma and explain the properties of the different types of radiation
8 th October Thursday (Boys) 8 th October Thursday (Girls)	1	L.O: Solving worksheet on types of radaition . Learning outcome: Students will be able to reinforce the concepts learned in the previous lesson by solving the worksheet	GC	Teacher will post the worksheet in the google classroom. Students will solve and turn in by the end of the lesson