

## YEAR 10 (A-F)– Physics

**WEEK 7 (11<sup>th</sup> October to 15<sup>th</sup> October)**

**Topic:** Radioactivity

**Lesson Objective:** Radioactive decay

**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

<b>Date</b>	<b>Lesson</b>	<b>Lesson objectives &amp; Learning outcome</b>	<b>Mode of Teaching</b>	
<b>11<sup>th</sup> Oct</b> Sunday (Boys)  <b>11<sup>th</sup> Oct</b> Sunday (girls)	1          2	<b>L.O:</b> Assessment  SP 5b-colour  5c-Lenses  6a –Atomic Models  6b-Inside Atoms   <b>Learning outcome:</b> assessing students knowledge in the given topics	<b>Zoom</b>	Assessment will be given in google form
<b>13<sup>th</sup> Oct</b> Tuesday (Boys)  <b>14<sup>th</sup> Oct</b> Wednesday (girls)	5    5	<b>L O:</b> To discuss the textbook questions of SP 6d,Sp 6e and worksheet given in GC   <b>Learning outcome:</b> The students will be able to reinforce the concepts of background radiation& types of radiation and analyze their answers.	<b>Zoom</b>	Teacher discuss the answers and clarify the doubts regarding the topic
<b>13<sup>th</sup> Oct</b> Tuesday (Boys)  <b>14<sup>th</sup> Oct</b>	6	<b>L.O:</b> Explain the effects on the atomic (proton) number and mass (nucleon) number of radioactive decays ( $\alpha$ , $\beta$ , $\gamma$ and neutron emission)  <b>Learning outcome:</b> Students will be able		Teacher uses ppt presentation to discuss how the mass number and atomic number of an

Wednesday (girls)	6	<p>to</p> <ul style="list-style-type: none"> <li>• Recall the structure of alpha particle, beta and gamma radiations.</li> <li>• Explain how the proton and mass numbers are affected by different kinds of radioactive decay.</li> <li>• Balance nuclear equations for mass and charge.</li> </ul>	<b>Zoom</b>	<p>element changes while alpha, beta plus, beta minus, gamma and neutrons emissions occur. Also work out few examples to explain how to balance nuclear equations for mass and charges</p>
<p>15<sup>th</sup> Oct Thursday (Boys)</p> <p>15<sup>th</sup> Oct Thursday (Girls)</p>	4	<p><b>L.O:</b> Solving worksheet on radioactive decay</p> <p><b>Learning outcome:</b> Students will be able to reinforce the concepts learned in the previous lesson by solving the worksheet</p>	<b>GC</b>	<p>Teacher will post the worksheet in the google classroom. Students will solve and turn in the worksheet</p>
	1			