

## YEAR 10 A-F – BIOLOGY

WEEK 3 (13<sup>th</sup> September to 17<sup>th</sup> September)

Work sent to students through Class Bio Whats App Group/G mail/Google Classroom

### SB3cii- DNA EXTRACTION

L.O- To know how to extract DNA from fruit.

<p>Sunday – 3rd Period (Boys) Sunday – 5th Period (Girls)</p>	<p><b><u>ZOOM SESSION- STRAWBERRY DNA EXTRACTION.</u></b></p> <p>Students must watch the video link given below</p> <p><a href="https://www.youtube.com/watch?v=vPGKv53zSRQ">https://www.youtube.com/watch?v=vPGKv53zSRQ</a></p> <p>Text book Page-56-57 Complete Qn.1-7 on pg.57</p> <p>Resources: Video link &amp; power point presentation</p> <p><b>Students able to:</b></p> <ul style="list-style-type: none"><li>● Understand the isolation of DNA from tissues.</li><li>● Compare extraction of DNA from Strawberry &amp; Peas.</li></ul>
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### SB 3d-PROTEIN SYNTHESIS

L.O- Explain how the order of bases in a section of DNA decides the order of amino acids in the protein and that these fold to produce specifically shaped proteins.

<p>Monday-4th period (Boys) Tuesday -1<sup>st</sup> Period (Girls)</p>	<p><b>ZOOM SESSION- Types of RNA</b></p> <p>Students must watch the video link given below on</p> <p><a href="https://www.youtube.com/watch?v=1THvMok3WU0">https://www.youtube.com/watch?v=1THvMok3WU0</a></p> <p><a href="https://www.youtube.com/watch?v=Kf5NeG97-38">https://www.youtube.com/watch?v=Kf5NeG97-38</a></p> <p>Text book Page-58-59 Complete 1-7</p> <p>Resources: PowerPoint /Board work &amp;Video link</p> <p><b>Students able to:</b></p>
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	<ul style="list-style-type: none"> <li>● Recall what are proteins made of.</li> <li>● Role of DNA &amp; ribosomes in protein synthesis</li> <li>● Describe the structure of mRNA, tRNA &amp; rRNA to favour protein synthesis</li> </ul>
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**SB3d- PROTEIN SYNTHESIS**

**L.O-** Describe the stages of protein synthesis-Transcription and Translation

<p><b>Tuesday- 2<sup>nd</sup> Period (Girls)</b></p> <p><b>Thursday-1st Period(Boys)</b></p>	<p><b><u>ZOOM SESSION- TRANSCRIPTION AND TRANSLATION</u></b></p> <p><b>Students must watch the video link given below on</b>  <a href="https://www.youtube.com/watch?v=gG7uCskUOrA">https://www.youtube.com/watch?v=gG7uCskUOrA</a></p> <p>Text book Page-58-59</p> <p>Complete qn 8-10,S1 , E1 and exam style question</p> <p>Resources: PowerPoint /Board work &amp;Video link</p> <p><b>Students able to:</b></p> <ul style="list-style-type: none"> <li>● Define and explain the significance of triplet codon, codon and anti-codon.</li> <li>● Differentiate the role of mRNA, tRNA &amp; rRNA in protein synthesis</li> <li>● Identify the role of key components in transcription and translation and describe the stages in detail.</li> </ul>
<p><b>Wednesday-4th period (Girls)</b></p> <p><b>Thursday-2<sup>nd</sup> Period (Boys)</b></p>	<p><b>GC</b></p> <p>Worksheet SB3c.3 on DNA Structure &amp;SB3d.3 on Protein synthesis will be posted in Google Classroom. Students have to complete and turn in their work as Google docs in Google classroom</p>