

YEAR 10 A-F – BIOLOGY

WEEK 5 (27th September to 1st October)

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

SB 3B3j-Gene Mutation

L.O- State that there is usually extensive genetic variation within a population of a species and these arise through mutations. State that most genetic mutations have no effect on phenotype , some mutations have a small effect on the phenotype.

<p>Sunday – 3rd Period (Boys) Sunday – 5th Period (Girls)</p>	<p>ZOOM SESSION:-</p> <p>Students must watch the video link given below on https://www.youtube.com/watch?v=RXmpVboM040 https://www.youtube.com/watch?v=37VqMXDYb0U</p> <p>Read Text book Page-70-71</p> <p>Complete Qn 4-5 and Exam style question</p> <p>Resources: PowerPoint /Board work &Video link</p> <p>Students able to:</p> <ul style="list-style-type: none">●Define Mutation ●Identify the cause of mutations●Describe how gene mutations change the DNA sequence. ●Explain how sickle cell mutation and mutation in the coding and non coding region. ●Beneficial effects of mutation ●Categorise mutations as harmful, beneficial and neutral in humans with examples.
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SB3e- Genetic variants and phenotypes

L.O- Describe how genetic variants in the non-coding DNA of a gene can affect phenotype by influencing the binding of RNA polymerase and altering the quantity of protein produced. Describe how genetic variants in the coding DNA of a gene can affect phenotype by altering the sequence of amino acids.

<p>Monday-4th period (Boys) Wednesday-4th period (Girls)</p>	<p>ZOOM SESSION-</p> <p>Students must watch the video link given below on</p>
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	<p>https://www.youtube.com/watch?v=M4ut72kfUJM</p> <p>Read Text book Page-60-61</p> <p>Complete Qn 7-8 and E1question</p> <p>Resources: PowerPoint /Board work &Video link</p> <p>Students able to:</p> <ul style="list-style-type: none"> ●Identify the role of RNA polymerase in protein synthesis. ●Factors altering the quantity of proteins produced . ●Differentiate introns and exons
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<p>Tuesday -1st & 2nd Period (Girls) Thursday-1st&2nd Period(Boys)</p>	<p>Zoom: GL PRACTICE: Students to complete the GL practice WS. Discussion and clarifying doubts, if any.</p> <p><u>Resources:</u> Worksheet</p> <p>Students able to understand/describe :</p> <ul style="list-style-type: none"> ●Structure and function of living organisms ●Photosynthesis & Cellular respiration in organisms ● Interactions and interdependencies within ecosystem ●Genetics and evolution
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