

YEAR 11 G & H – BIOLOGY (IGCSE)

WEEK 11 (8th Nov to 12th Nov)

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

Topics 16 : Chromosomes, genes and DNA.

L.O.: Understand the Gregor Mendel's experiments on inheritance. Describe patterns of monohybrid inheritance using a genetic diagram including inheritance of the ABO blood groups with reference to co-dominance and multiple alleles and gender.

Sunday- 4th period	<p>Zoom: Understand how genes exist in alternative forms called alleles which give rise to differences in inherited characteristics and the meaning of like genetic terms like dominant, recessive, homozygous, heterozygous, phenotype, and genotype.</p> <p>https://www.youtube.com/watch?v=SOgVM904cPc</p> <p>https://www.youtube.com/watch?v=reVLRjZlh3c</p> <p>https://www.youtube.com/watch?v=zNEtVaNQ0s8</p> <p><u>Textbook page : 227 - 239</u></p> <p>Resources: Textbook, Video Links & Power point.</p> <p>Students able to:</p> <p>Define the term alleles</p> <p>Represent alleles for a particular trait.</p> <p>Describe Gregor Mendel's experiments on inheritance.</p> <p>Explain the role of alleles in developing genetic variations.</p>
Monday- 7th period	<p>Zoom: Describe patterns of monohybrid inheritance using a genetic diagram.</p> <p>https://www.youtube.com/watch?v=Kz7rl5JwlLE</p> <p><u>Textbook page : 227 - 239</u></p> <p>Resources: Textbook, Video Links & Power point.</p> <p>Students able to:</p> <p>Define a monohybrid cross.</p> <p>Construct a Punnett square and make simple conclusions about monohybrid crosses.</p> <p>Predict probabilities of outcomes from monohybrid crosses.</p>

<p>Tuesday – 3rd and 4th period</p>	<p>Zoom: Describe the inheritance of the ABO blood groups with reference to co-dominance and multiple alleles and Describe how the sex of offspring is determined using a genetic diagram.</p> <p>https://www.youtube.com/watch?v=Bo1rllFcehM</p> <p>https://www.youtube.com/watch?v=gDYRH08S-Z4&t=114s</p> <p><u>Textbook page : 227 - 239</u></p> <p>Resources: Textbook, Video Links & Power point.</p> <p>Students able to:</p> <p>Differentiate dominance, incomplete dominance & co-dominance .</p> <p>List few examples of dominance, incomplete dominance & co-dominance traits in organisms.</p> <p>Describe how the sex of offspring is determined at fertilisation, using genetic diagrams.</p>
<p>Wednesday – 5th period</p>	<p>GC: Students complete textbook questions on Inheritance on pgs 236-239.</p> <p>Resources: Textbook</p>

YEAR 11 A/D/E - BIOLOGY (GCSE)

WEEK 11 (8th November to 12th November)

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

Topics - SB7h-Osmoregulation.

L.O – Describe the structure of the urinary system including how the structure of the nephron is related to its function in filtering the blood and forming urine and the effect of ADH on the permeability of the collecting duct in regulating the water content of the blood

<p>Sunday-6th period(girls)</p>	<p>Zoom session -Parts of urinary system Resources: PowerPoint /Board work &Video link https://www.youtube.com/watch?v=1NtPjzm1-74 https://www.youtube.com/watch?v=82mW8bpcSyU</p> <p>Students able to</p> <ul style="list-style-type: none"> ● Draw & label the various parts of the urinary system. ● Explain the structure of the various parts of the urinary system related to urine formation.
<p>Monday - 3rd period(girls)</p>	<p>Zoom session-Structure of nephron. Resources: PowerPoint /Board work &Video link https://www.youtube.com/watch?v=oM_IDX9Q0vc</p> <p>Students able to.</p> <ul style="list-style-type: none"> ● Draw & label the various parts of a typical nephron. ● Describe the structure of the various parts of the nephron for urine formation

<p>Tuesday-7th & 8th period(girls)</p>	<p>Zoom session-Urine formation and the effect of ADH on the permeability of the collecting duct in regulating the water content of the blood. Resources: PowerPoint /Board work &Video link https://www.youtube.com/watch?v=zVzgswdRRHA https://www.youtube.com/watch?v=yXWISve_7Uw</p> <p>Students able to</p> <ul style="list-style-type: none"> • Name the processes involved in urine formation. • Locate the place where ultrafiltration & reabsorption of glucose water takes place • Predict the changes in level of ADH on a hot day & cold day. • Describe the role of ADH in urine formation. • Describe negative feedback mechanism involved in osmoregulation
<p>Wednesday-7th period (girls)</p>	<p>GC Students to complete the worksheet SB7g.3 & turn in their work.</p>

YEAR 11 B/C/F - BIOLOGY (GCSE)

WEEK 11 (8th November to 12th November)

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

Topics - SB7g- Thermoregulation & SB7h-Osmoregulation

L.O – Explain how thermoregulation takes place, with reference to the function of the skin & with reference to a. shivering b. vasoconstriction c. vasodilation. Describe the structure of the urinary system including how the structure of the nephron is related to its function in filtering the blood and forming

<p>Sunday-8th period(boys)</p>	<p>Zoom Session: SB7g-Thermoregulation Resources : PowerPoint /Board work &Video link https://www.youtube.com/watch?v=WoMPARSQPZw Students able to</p> <ul style="list-style-type: none"> • Identify and label major parts of human skin and their physiology. • Describe the role of major components of skin in thermoregulation • Co relate the role of sweating & urine production when humans are subjected to hot & cold conditions
<p>Tuesday -5th period (boys)</p>	<p>Zoom Session: SB7g-Thermoregulation Resources: PowerPoint /Board work &Video link https://www.youtube.com/watch?v=WoMPARSQPZw Students able to</p> <ul style="list-style-type: none"> • Explain the role of the hypothalamus in thermoregulation. • Explain role of vasoconstriction and vasodilation during winter and summer. • Define negative feedback mechanism • Describe the effect of hypothermia on human body. <p>Discussion of textbook questions.(page 154 to 155)</p>
<p>Wednesday-6th period (boys)</p>	<p>Zoom session -Parts of urinary system Resources: PowerPoint /Board work &Video link https://www.youtube.com/watch?v=1NtPjzm1-74 https://www.youtube.com/watch?v=82mW8bpcSyU Students able to</p>

	<ul style="list-style-type: none"> ● Draw & label the various parts of the urinary system. ● Explain the structure of the various parts of the urinary system related to urine formation.
Thursday – 5 th period (boys)	Zoom session-Structure of nephron. Resources: PowerPoint /Board work &Video link https://www.youtube.com/watch?v=oM_IDX9Q0vc Students able to <ul style="list-style-type: none"> ● Draw & label the various parts of a typical nephron. ● Describe the structure of the various parts of the nephron for urine formation
Thursday – 6 th period (boys)	GC Students to complete the worksheet SB7g.3 & turn in their work