

YEAR 11 G & H – BIOLOGY (IGCSE)

WEEK 4 (20th Sept to 24th Sept)

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

Topic 7:Chemical Co-ordination & Topic 12:Chemical Co-ordination in plants.

L.O.: **Describe** the geotropic and phototropic responses of roots and stems and understand the role of auxin in the phototropic response of stems.

Understand the sources, roles and effects of the following hormones: adrenaline, insulin, testosterone, progesterone and oestrogen, ADH, FSH and LH.

Sunday- 4th period	<p>Zoom Session: Explain the role of auxin in the phototropic response of roots and stems</p> <p>https://www.youtube.com/watch?v=yI26tn_BQXs</p> <p><u>Textbook page : 168 - 173</u></p> <p>Resources: Textbook, Video Links & Power point</p> <p>Students able to:</p> <p>Define Phototropism and Geotropism.</p> <p>Explain the role of auxin in the phototropic response stems</p>
Monday- 7th period	<p>Zoom: Describe Darwin's experiments with phototropism.</p> <p><u>Textbook page : 168 - 173</u></p> <p>https://www.youtube.com/watch?v=AJ4OY9Jg5Kc</p> <p>Resources: Textbook ,link & ppt</p> <p>Students able to:</p> <p>State the function of coleoptiles.</p> <p>Describe the role of clinostat to show tropism.</p> <p>Explain Darwin's experiments with phototropism.</p>

<p>Tuesday – 3rd and 4th period</p>	<p>Zoom: Describe the sources, roles and effects of the following hormones: adrenaline, insulin, testosterone, progesterone and oestrogen, ADH, FSH and LH.</p> <p><u>Textbook page : 98 - 103</u></p> <p>https://www.youtube.com/watch?v=HJI11Fj4jYs</p> <p>https://www.youtube.com/watch?v=BvpPCn1rsw</p> <p>Resources: Textbook, Video Links & Power point.</p> <p>Students able to:</p> <p>Define a gland.</p> <p>Explain the source and effect of the hormone adrenaline</p> <p>Explain the role of testosterone.</p> <p>GC: Students answer <u>textbook questions 1-6 on Pgs 102-103</u></p> <p>Students able to:</p> <p>Identify the functions of different hormones in the body.</p> <p>Explain the graph on blood glucose levels at different times of the day</p>
<p>Wednesday – 5th period</p>	<p>Zoom: Discussion of answers to textbook questions <u>Pgs 102-103</u></p> <p>Clarifying doubts, if any: homework WS: Response in plants</p> <p><u>Textbook page : 102-103</u></p> <p>Resources: Textbook</p> <p>Students able to:</p> <p>Define negative tropism</p> <p>Explain how plants grow towards sunlight.</p>

YEAR 11 A-F- BIOLOGY (GCSE)

WEEK 4 (20th Sept to 24th Sept)

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

SB6- d & f- Translocation & Plant hormones

L.O – Describe how sucrose is transported around the plant by translocation and the role of different mineral ions & plant hormones in the control and coordination of plant growth, including the role of auxins in phototropism.

<p>Sunday-6th period(girls) Sunday-8th period(boys)</p>	<p>Zoom Session Discussion of text book questions related to plant adaptations, transpiration & transport of water & mineral ions . (Text book pages-130 - 135) Students able to ● Recall that substances can be transported by diffusion, osmosis and active transport ● Describe how the structure of xylem & phloem is adapted for transport of nutrients in plants. ● Role of transpiration in transport ● Adaptive features of Hydrophytes, Xerophytes, Mesophytes & Halophytes .</p>
<p>Monday -3rd period(girls) Tuesday -5th period (boys)</p>	<p>Zoom session Translocation(Textbook page-133) https://www.youtube.com/watch?v=KHUrQ6qKpxQ&t=500s Resources: Video Links & Power points Students able to . ● Differentiate between glucose and sucrose. ● Describe how translocation occurs. . ● Compare the transport of water, mineral salts & sucrose in plants.</p>
<p>Tuesday-7th period(girls) Wednesday-6th period(boys)</p>	<p>Zoom Session Role of different mineral ions in plant growth. https://www.youtube.com/watch?v=-DGcfS11DbM Resources: Video Links & Power points Students able to</p>

	<ul style="list-style-type: none"> ● Explain the role of different mineral ions in plant growth ● Describe the plant diseases caused by the deficiency of mineral ions & their symptoms.
<p>Tuesday -8th period(girls)</p> <p>Thursday-5th period(boys)</p>	<p>Zoom Session</p> <p>Plant hormones(Text book pages-136)</p> <p>https://www.youtube.com/watch?v=yI26tn_BQXs</p> <p>Resources: Video Links & Power points</p> <p>Students able to</p> <ul style="list-style-type: none"> ● Define the term tropism. ● Identify negative and positive photo- and gravitropisms. ● Explain how auxins cause phototropism in plant shoots and roots.
<p>Wednesday-7th period (girls)</p> <p>Thursday -6th period(boys)</p>	<p>GC</p> <p>Students to complete the work sheets (SB6c.4& SB6d.3) put in Google Classroom& turn in their work in GC.</p>