

YEAR 11 G & H – BIOLOGY (IGCSE)

WEEK 3 (13th September to 17th September)

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

Topic 6: Co-ordination

L.O: Understand the role of neurotransmitters at synapse. Describe the function of the eye in focusing on near and distant objects, and in responding to changes in light intensity.

Sunday- 4th period	<p>Zoom Session: Explain the role of neurotransmitters at synapses.</p> <p>https://www.youtube.com/watch?v=cNaFnRKwpFk</p> <p>https://www.youtube.com/watch?v=YFfYP5Nz5kE&t=72s</p> <p><u>Textbook page : 84 - 97</u></p> <p>Resources: Textbook, Video Links & Power point</p> <p><i>Students able to:</i></p> <p>Identify synapses.</p> <p>State the functions of neurotransmitters at synapses.</p> <p>Understand the sequence of events happening at a synapse.</p>
Monday- 7th period	<p>Zoom: Describe the structure and function of the eye as a receptor.</p> <p><u>Textbook page 84-97</u></p> <p>https://www.youtube.com/watch?v=YcedXDN6a88</p> <p>Resources: Textbook ,video link & ppt</p> <p><i>Students able to:</i></p> <p>Label the major parts of a human eye.</p> <p>Explain the how the eye forms an image.</p> <p>Describe the function of the human eye as a receptor.</p>
Tuesday – 3rd and 4th period	<p>Zoom: Understand how the eye focuses on objects at different distances.</p> <p><u>Textbook page 84-97</u></p>

	<p>https://www.youtube.com/watch?v=ob7IaNIslzo</p> <p>https://www.youtube.com/watch?v=QYHIHr_S5fg</p> <p>Resources: Textbook, Video Links & Power point.</p> <p><i>Students able to:</i></p> <p>State the role of Iris.</p> <p>Define the term accommodation.</p> <p>Describe how the eye focuses on objects at different distances.</p> <p>GC: Students answer worksheet The Eye and turn in their work.</p> <p>Students able to:</p> <p>Explain the response of the eye to bright light as a reflex.</p> <p>Suggest how Presbyopia affects a person's vision.</p>
Wednesday – 5th period	<p>Zoom: Discussion of answers to textbook questions (homework Q. 2, 3 & 6) and worksheet on Eye, doubts clarified if any.</p> <p><u>Textbook page 84-97</u></p> <p>Resources: Textbook & WS file</p> <p>Students able to:</p> <p>Identify the label for the structure of the eye.</p> <p>Explain the differences in structure of the eye from dim to bright light.</p>

YEAR 11 A-F- BIOLOGY (GCSE)

WEEK 3(13th Sept to 17th Sept)

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Topic -SB6- c, d & e-Plant adaptations, Absorbing water and mineral ions & Transpiration

L.O – Explain how plants are adapted to survive in extreme environments & how the structure of the root hair cells, xylem and phloem is adapted to their functions & describe how water and mineral ions are transported through the plant by transpiration, including the structure and function of the stomata.

Sunday-6th period(girls) Sunday-8th period(boys)	Zoom class Textbook page-134 https://www.youtube.com/watch?v=r5Rs73Ate3Q https://www.youtube.com/watch?v=cPQ_NoxbW88 Students able to . ●Explain how do plants get adapted to extreme environment by curbing loss to transpiration● Describe some adaptations that plants (hydrophytes, mesophytes and xerophytes) have to live in extreme environments..
Monday -3rd period(girls) Tuesday -5th period (boys)	Zoom class Text book pages-130 https://www.youtube.com/watch?v=yVd9Z3av1Ew https://www.youtube.com/watch?v=ew8pORCNwpg Students able to ●Recall that substances can be transported by diffusion, osmosis and active transport ● Draw & label a typical root hair cell ● Describe how the structure of xylem & phloem is adapted for transport of nutrients in plants.●Evaluate the need for concentration gradient in uptake of water and nutrients.
Tuesday-7th period(girls) Wednesday-6th period(boys)	Zoom class Text book pages-132 https://www.youtube.com/watch?v=9vTDokLRZs0 https://www.youtube.com/watch?v=3lxD9TOpHaw Students able to ●Explain the effects of environmental factors on the rate of transpiration (light intensity, air movement, temperature, humidity). ●Investigate the factors affecting transpiration using photometer ●Analyse & interpret the data linked to transpiration.
Tuesday -8th period(girls) Thursday-5th period(boys)	Zoom class Text book pages-132 https://www.youtube.com/watch?v=5CmrK8rlzZw Students able to ●Describe how transpiration occurs.●Explain how water and mineral ions are transported through the plant by transpiration
Wednesday-7th period (girls) Thursday -6th period(boys)	GC Students to complete the work sheets (SB6d.4 & SB6e.3) put in Google Classroom& turn in their work in GC.