

## YEAR 10 (A-F)– BIOLOGY

WEEK 8 (10<sup>th</sup> May to 14<sup>th</sup> May)

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

### SB 5h- Plant Diseases

**L.O-** Describe different ways plant diseases can be detected and identified, in the lab and in the field including the elimination of possible environmental causes, distribution analysis of affected plants, observation of visible symptoms and diagnostic testing to identify pathogens

<p><b>Sunday- zero and 3rd Period (Girls)</b></p> <p><b>Sunday- 1st and 2nd Period (Boys)</b></p>	<p><b>ZOOM SESSION</b></p> <p><b>Students watch the video link given below</b> and able to identify different ways plant diseases can be detected and identified, in the lab and in the field</p> <p><a href="https://www.youtube.com/watch?v=JOP5ae_nwBk">https://www.youtube.com/watch?v=JOP5ae_nwBk</a></p> <p>Text book Page-110-111</p> <p><b>1Period- GC-</b> Students able to analyse &amp; interpret data linked to identifying plant diseases, questions given in the worksheet <b>SB5h.3-Identifying Plant disease</b></p> <p>Work sheet file page 58.</p> <p>Students must complete the task and turn in the document in the Google Classroom.</p> <p><b>Resources:</b> PowerPoint &amp; Video link</p>
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### DRUG TRIAL TECHNIQUES

**L.O-** Describe that the process of developing new medicines, including antibiotics, has many stages, including discovery, development, pre-clinical and clinical testing.

<p><b>Sunday – 4 th Period (Girls)</b></p> <p><b>Tuesday – 2 nd Period (Boys)</b></p>	<p><b>ZOOM SESSION</b></p> <p><b>Students watch the video link given below</b> and identify various stages of drug trialling- pre-clinical and clinical testing .</p> <p><a href="https://www.youtube.com/watch?v=w3ykU52K-Hw">https://www.youtube.com/watch?v=w3ykU52K-Hw</a></p> <p><a href="https://www.youtube.com/watch?v=3GI0gAcW8rw">https://www.youtube.com/watch?v=3GI0gAcW8rw</a></p> <p>Text book Page-117- Qn5a,b exam style question.</p> <p><b>Resources:</b> PowerPoint &amp; Video link</p>
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## **SB5K-ANTIBIOTICS**

**L.O**-Describe that the process of developing new medicines, including antibiotics, has many stages , including discovery, development, pre-clinical and clinical testing.

<p><b>Wednesday – 4th Period (Boys)</b></p> <p><b>Thursday -7th Period (Girls)</b></p>	<p><b><u>ZOOM SESSION-</u></b></p> <p><b>Students watch the video link given below</b> and able to describe that the process of developing new medicines, including antibiotics</p> <p><a href="https://www.youtube.com/watch?v=X1GT2bKgcI8">https://www.youtube.com/watch?v=X1GT2bKgcI8</a></p> <p><a href="https://www.youtube.com/watch?v=3GI0gAcW8rw">https://www.youtube.com/watch?v=3GI0gAcW8rw</a></p> <p>Read Text book Page no: 116-117 and complete the Differentiated worksheets in Worksheet file</p> <p>SB5K.3- Antibiotics-Page 65 / SB5K.4-Antibiotics and their development- Homework-1- Page 66 / SB5K.5- Developing a new antibiotic- Homework-2- Page 67</p> <p><b>Resources:</b> PowerPoint &amp;Video link</p>
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# YEAR 10D - BIOLOGY

**WEEK 8 (10<sup>th</sup> May to 14<sup>th</sup> May)**

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

**Topic 5E –Spreading pathogens**

**L.O** – To describe the lifecycle of a virus, including lysogenic and lytic pathways

<b>Sunday- 0, 3rd and 4<sup>th</sup> period</b>	Virus LIFE-CYCLE Pathways ( <b>Zoom session</b> ) <a href="https://www.youtube.com/watch?v=hFwA0aBX5bE&amp;t=97s">https://www.youtube.com/watch?v=hFwA0aBX5bE&amp;t=97s</a>  Students able to <ul style="list-style-type: none"><li>• <b>Label</b> the structure of a virus.</li><li>• <b>Describe</b> the lytic and lysogenic pathway of a virus life cycle</li></ul> <b>GC:</b> Task assigned Students write answers to WS file questions 5f.2, 5f.3  <b>Resources:</b> PowerPoint &Video link
<b>Thursday- 7<sup>th</sup> period</b>	Discussion of answers: Textbook questions pages 104-105 ( <b>Zoom Session</b> )  Students able to <ul style="list-style-type: none"><li>• <b>Compare</b> the lytic and lysogenic pathway of a virus life cycle.</li></ul> <b>Resources:</b> PowerPoint &Video link



# YEAR 10H - BIOLOGY (IGCSE)

WEEK 8 (10<sup>th</sup> May to 14<sup>th</sup> May)

## Topic 8: Homeostasis and Excretion

- **L.O:** Explain urine formation in the nephron & negative feedback mechanism involved in urine formation .

<b>Sunday- 1<sup>st</sup> and 2<sup>nd</sup> (Boys)</b>	Students able to <ul style="list-style-type: none"><li>• <i>Describe the role of ADH in regulating the water content of the blood and osmoregulation</i></li></ul> <b>Zoom session - Students watch the video link given below</b> <a href="https://www.youtube.com/watch?v=r15H_xQqOd8">https://www.youtube.com/watch?v=r15H_xQqOd8</a> <b>Resources:</b> PowerPoint & Video link
<b>Tuesday- 2<sup>nd</sup> period (Boys)</b>	Students able to <ul style="list-style-type: none"><li>• <i>Describe negative feedback mechanism involved in osmoregulation</i></li></ul> <b>Zoom session - Students watch the video link given below</b> <a href="https://www.youtube.com/watch?v=yXWISve_7Uw">https://www.youtube.com/watch?v=yXWISve_7Uw</a> <b>Resources:</b> PowerPoint & Video link
<b>Wednesday- 4<sup>th</sup> period (Boys)</b>	<b>GC:</b> Task assigned Students write answers to Textbook questions Pages 115-117: 1-8  Students able to <ul style="list-style-type: none"><li>• <i>Describe the role of ADH in urine formation.</i></li><li>• <i>Explain negative feedback mechanism involved in urine formation.</i></li></ul> <b>Resources:</b> PowerPoint & Video link

# YEAR 10G-BIOLOGY (IGCSE)

WEEK 8 (10<sup>th</sup> May to 14<sup>th</sup> May)

Work sent to the students through Google classroom.

## Topic 8: Homeostasis and Excretion

**L.O:** Describe the structure of a nephron, including the Bowman's capsule and glomerulus, convoluted tubules, loop of Henle and collecting duct. Describe ultra filtration in the Bowman's capsule and the composition of the glomerular filtrate.

<b>Sunday – zero Period/ Z</b>	<b>Students able to</b> <ul style="list-style-type: none"><li>● Draw &amp; label the various parts of a typical nephron.</li><li>● Describe the structure of the various parts of the nephron for urine formation.</li></ul> <b>Resources:</b> PowerPoint Video link <a href="https://youtu.be/uI-ByPDmsQw">https://youtu.be/uI-ByPDmsQw</a>
<b>Sunday – 3rd period/ GC</b>	<b>Task:</b> Read the textbook page 109 and write answers to Textbook question 4 on page 131. <b>Students able to</b> <ul style="list-style-type: none"><li>● Draw &amp; label the various parts of a typical nephron.</li><li>● Describe the structure of the various parts of the nephron for urine formation.</li></ul>
<b>Sunday – 4<sup>th</sup> period / Z</b>	<b>Students able to</b> <ul style="list-style-type: none"><li>● Name the processes involved in urine formation.</li><li>● Locate the place where ultrafiltration &amp; reabsorption of glucose and water takes place.</li></ul> <b>Resources:</b> PowerPoint Video link: <a href="https://youtu.be/tXXEn6IdLPY">https://youtu.be/tXXEn6IdLPY</a>
<b>Thursday – 7th period/Z</b>	<b>Students able to</b> <ul style="list-style-type: none"><li>● Recall parts of Nephron &amp; formation of urine</li></ul> Review of content covered done in zoom session during the week to check understanding through an AFL/MCQ quiz .