

## YEAR 12 - Batch 1 - BIOLOGY

WEEK 12 (15<sup>th</sup> Nov – 19<sup>th</sup> Nov)

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

### Topic 2.2 – Viruses

**L.O** – Describe general structure of viral particles , Classification of viruses , Structure of Ebola virus, HIV virus ,TMV virus & lambda phage / bacterio phage virus , replication in viruses.

**Biology Students Book 1**

<p><b>B1- Tuesday – 4<sup>th</sup> period(Zoom)</b></p>	<p><b>Students able to</b></p> <ul style="list-style-type: none"><li>● Draw &amp; label various parts of virus</li><li>● Identify capsid, capsomere &amp; nucleic acid of virus</li><li>● Describe the role of various parts of virus - capsid, capsomere &amp; nucleic acid of virus</li></ul> <p><b>Resources:</b> PowerPoint - Virus &amp; Video link <a href="https://www.youtube.com/watch?v=O1TetEto1Is">https://www.youtube.com/watch?v=O1TetEto1Is</a> <a href="https://www.youtube.com/watch?v=GJBzPqgTVAs">https://www.youtube.com/watch?v=GJBzPqgTVAs</a></p>
<p><b>B1 - Thursday – 1<sup>st</sup> period &amp; 2<sup>nd</sup> period (Zoom)</b></p>	<p><b>Students able to</b></p> <ul style="list-style-type: none"><li>● Classify virus as DNA,RNA&amp; retrovirus</li><li>● Differentiate plant virus, animal virus &amp; bacteriophage</li><li>● Compare structure of Ebola virus, HIV virus ,TMV virus &amp; lambda phage / bacterio phage virus .</li><li>● Identify stages of the lytic cycle &amp; lysogenic cycle</li></ul> <p><b>Resources:</b> PowerPoint - Virus &amp; Video link <a href="https://www.youtube.com/watch?v=BeygDarpjtc&amp;t=59s">https://www.youtube.com/watch?v=BeygDarpjtc&amp;t=59s</a> <a href="https://www.youtube.com/watch?v=wrm40f1UNQ">https://www.youtube.com/watch?v=wrm40f1UNQ</a> <a href="https://www.youtube.com/watch?v=s8jhJXgC-bk&amp;list=PLIPPDceCrdRKip7BL2aLx6nJrkZBHLF2y&amp;index=6&amp;t=0s">https://www.youtube.com/watch?v=s8jhJXgC-bk&amp;list=PLIPPDceCrdRKip7BL2aLx6nJrkZBHLF2y&amp;index=6&amp;t=0s</a> <a href="https://www.youtube.com/watch?v=4LTPF-jCraI">https://www.youtube.com/watch?v=4LTPF-jCraI</a></p> <p><b>Students to complete</b></p> <p>Comparison of structure of Ebola virus, HIV virus ,TMV virus &amp; lamda phage / bacterio phage virus .Include pictures of various viral particles and turn in the document in GC</p>

## YEAR 12 - Batch 2 - BIOLOGY

WEEK 12 (15<sup>th</sup> Nov – 19<sup>th</sup> Nov)

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

## Topic 2.2 – Viruses

**L.O** – Structure of Ebola virus, HIV virus ,TMV virus & lambda phage / bacterio phage virus. Describe lytic & lysogenic cycle of viruses. Compare replication of RNA Virus – positive ssRNA virus, negative ssRNA virus & retroviruses. Explain cause, spread and control of viral diseases - Food and mouth disease & Ebola

### **Biology Students Book 1**

<b>B2- Monday – 5<sup>th</sup> &amp; 8<sup>th</sup> period (Zoom)</b>	<p><b>Students able to</b></p> <ul style="list-style-type: none"><li>● Compare structure of Ebola virus, HIV virus ,TMV virus &amp; lambda phage / bacterio phage virus .</li><li>● Identify stages of the lytic cycle &amp; lysogenic cycle</li><li>● Differentiate lytic &amp; lysogenic cycle</li><li>● Explain replication of RNA Virus – positive ssRNA virus, negative ssRNA virus &amp; retroviruses.</li></ul> <p><b>Resources:</b> PowerPoint - Virus &amp; Video link <a href="https://www.youtube.com/watch?v=s8jhJXgC-bk&amp;list=PLIPPDceCrdRKip7BL2aLx6nJrkZBHLF2y&amp;index=6&amp;t=0s">https://www.youtube.com/watch?v=s8jhJXgC-bk&amp;list=PLIPPDceCrdRKip7BL2aLx6nJrkZBHLF2y&amp;index=6&amp;t=0s</a> <a href="https://www.youtube.com/watch?v=R6-albOQr1Q">https://www.youtube.com/watch?v=R6-albOQr1Q</a> <a href="https://www.youtube.com/watch?v=sQ0ShukSA5I">https://www.youtube.com/watch?v=sQ0ShukSA5I</a> <a href="https://www.youtube.com/watch?v=09PHtVz99wE">https://www.youtube.com/watch?v=09PHtVz99wE</a></p> <p><b>Students to complete Text book questions pg. 101</b></p>
<b>B2 - Wednesday – 5<sup>th</sup> period</b>	<p><b>Students able to</b></p> <ul style="list-style-type: none"><li>● Identify cause &amp; spread of Food and mouth disease &amp; Ebola</li><li>● Explain the control of viral diseases</li><li>● Compare Food and mouth disease &amp; Ebola</li></ul> <p><b>Resources:</b> PowerPoint - Virus &amp; Video link <a href="https://www.youtube.com/watch?v=B44JfptNuG0">https://www.youtube.com/watch?v=B44JfptNuG0</a> <a href="https://www.youtube.com/watch?v=bLTD20FS6Dc">https://www.youtube.com/watch?v=bLTD20FS6Dc</a> <a href="https://www.youtube.com/watch?v=9axOFtPqS0c">https://www.youtube.com/watch?v=9axOFtPqS0c</a> <a href="https://www.youtube.com/watch?v=YsEp9vevqhs">https://www.youtube.com/watch?v=YsEp9vevqhs</a></p> <p><b>Students to complete Text book questions pg. 105 q.1-3</b></p>

## YEAR 12 - Batch 1 & 2 - BIOLOGY

**WEEK 12 (15<sup>th</sup> Nov – 19<sup>th</sup> Nov)**

**Work sent through Google classroom/G mail/Online Quiz/ZOOM Learning Platform**

**Topic 1.4-Enzymes**

**L.O - Factors affect the rate of enzyme activity. Evaluate the application of enzymes in daily life.**

**Biology Students Book 1**

<p><b>B1- Sunday – 8th period (GC)</b></p> <p><b>B2- Tuesday – 3rd period (GC)</b></p>	<p><b>GC-Asynchronous learning</b>  <b>Exam style questions-1.4 text book.</b>  <b>Answer the questions given on page 66 &amp; 67 and task to be turned in Google classroom</b></p>
<p><b>B1 - Monday – 1st &amp; 2nd period</b> <b>(Zoom)</b></p> <p><b>B2 - Thursday– 5th &amp; 6th period</b> <b>(Zoom)</b></p>	<p><b>Students able to-</b></p> <ul style="list-style-type: none"> <li>●<b>Investigate</b> and explain the effects of temperature, pH on the rate of enzyme-catalysed reactions, and explain these effects</li> <li>●<b>Describe</b> the effects of temperature, pH on the rate of enzyme-catalysed reactions, and explain these effects</li> </ul> <p><b>BOARD WORKS –Enzymes-No -7-21]</b></p> <p><b>Video and PPT: Effect of pH and temperature on enzyme action</b></p> <p><b>Websites:</b><a href="http://www.science.co.uk/biology/enzymes.html">www.science.co.uk/biology/enzymes.html</a>,  <a href="http://www.internet4classrooms.com">www.internet4classrooms.com</a></p> <p><b>Research enzyme kinetics in more detail. Use of enzymes in food and fruit juice industry like Al ain and Al Rawabi</b></p> <p><b>Text Book Page Numbers – 60-61</b></p>