YEAR 12 - Batch 1 - BIOLOGY

WEEK 11 (8th Nov – 12th Nov)

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

Topic 2 .1– Eukaryotes

L.O –Describe how the cells of multicellular organisms can be organised into tissues, tissues into organs and organs into systems .Recap of calculations related to magnification & actual size .

Biology Students Book 1

B1- Tuesday – 4th period(Zoom)	**Students able to** ●Recall cell theory. ● Define key terms tissues, organs & system with examples in plants& animals. ●Differentiate simple & compound tissues in plants & animals with examples **Resources:** PowerPoint -Tissues & Video link **https://www.youtube.com/watch?v=8bzCVSPG6l4** **https://www.youtube.com/watch?v=bHXmjxOekOY** **Students to complete Text book questions pg. 89**
B1 - Thursday – 1st period(Zoom)	**Students able to** ●Identify types of epithelial tissues in – simple squamous, cuboidal, columnar, ciliated, glandular & compound epithelium ● Describe types of epithelial tissues in humans including structural adaptations ● Differentiate endothelium, epithelium & mesothelium **Resources:** PowerPoint _ Tissues & Video link https://www.youtube.com/watch?v=0NEV-Rd7OgA **https://www.youtube.com/watch?v=oe-Z9t0KBfU**
B1 - Thursday– 2nd period (Zoom)	**Students to complete the worksheet put in GC** **Resources: Worksheet – Tissues & Microscopy** **Students able to** ●Recall cell theory. ●Identify organs, tissues & systems in organisms ● Calculate magnification & actual size of cells using the formula $M = O/A$

YEAR 12 - Batch 2 - BIOLOGY

WEEK 11 (8th Nov – 12th 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

Biology Students Book 1

B2- Monday – 5th period(Zoom)	**Students able to** ● Draw & label various parts of virus ●Identify capsid, capsomere & nucleic acid of virus ● Describe the role of various parts of virus - capsid, capsomere & nucleic acid of virus **Resources:** PowerPoint - Virus & Video link **https://www.youtube.com/watch?v=O1TetEto1Is** **https://www.youtube.com/watch?v=GJBzPqgTVAs**
B2 – Monday – 8th period(Zoom)	**Students able to** ● Classify virus as DNA,RNA& retrovirus ● Compare structure of DNA,RNA& retrovirus ● Differentiate plant virus, animal virus & bacteriophage **Resources:** PowerPoint - Virus & Video link **https://www.youtube.com/watch?v=BeygDarpjtc&t=59s** **https://www.youtube.com/watch?v=wmrm40f1UNQ**
B2 - Wednesday – 5th period	**GC-Research Work** **Compare structure of Ebola virus, HIV virus ,TMV virus & lamda phage / bacterio phage virus .Include pictures of various viral particles and turn in the document in GC**

YEAR 12 - Batch 1 & 2 - BIOLOGY

WEEK 11 (8th Nov – 12th 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

B1- Sunday – 8th period (Zoom) **B2- Tuesday – 3rd period (Zoom)**	**Students able to-** **Analyse** the graph showing the rate of an enzyme –catalysed reaction at different substrate concentrations **Explain** how the initial rate of enzyme activity can be measured and why this is important **BOARD WORKS –Enzymes-No -7-21]** **Video and PPT: Initial rate of enzyme action** **Websites:**www.science.co.uk/biology/enzymes.html, www.internet4classrooms.com **Text Book Page Numbers – 58-59**
B1 - Monday – 1st & 2nd period **(Zoom)** **B2 - Thursday– 5th & 6th period** **(Zoom)**	**Students able to- Investigate** and explain the effects of temperature, pH on the rate of enzyme-catalysed reactions, and explain these effects **Describe** the effects of temperature, pH on the rate of enzyme-catalysed reactions, and explain these effects **BOARD WORKS –Enzymes-No -7-21]** **Video and PPT: Effect of pH and temperature on enzyme action** **Websites:**www.science.co.uk/biology/enzymes.html, www.internet4classrooms.com **Research enzyme kinetics in more detail. Use of enzymes in food and fruit juice industry like Al ain and Al Rawabi** **Text Book Page Numbers – 60-61**