

YEAR 13 Batch 1 & 2 - BIOLOGY

WEEK 10 (1st Nov – 5th Nov)

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

Topic 5.1:- Cellular Respiration

L.O – Describe the components of ETC, Oxidative Phosphorylation & Chemiosmosis in ATP production. Compare Lactate fermentation in muscle cells to Alcohol fermentation in yeast

Biology Students Book 2

<p>B2 - Sunday – 6th & 7th Period (Zoom)</p> <p>B1- Monday –1st &2nd Period (Zoom)</p>	<p>Students able to</p> <ul style="list-style-type: none">● Enlist types of reactions and the enzymes involved in ETS.● Draw flow charts showing the chemical conversions during ETS.● Describe the chemiosmotic mechanism of ATP production.● Predict the role of respiratory poison in oxidative phosphorylation Calculate ATP production during ETS. <p>Resources: PowerPoint – Electron transport Chain Board works – cellular respiration & Video link</p> <p>https://www.youtube.com/watch?v=LQmTKxi4Wn4 https://www.youtube.com/watch?v=VxCdheLvrX4 https://www.youtube.com/watch?v=xbJ0nbzt5Kw</p> <p>Students to complete Text book questions pg. 23</p>
<p>B2 - Monday– 3rd Period (Zoom)</p>	<p>Students able to</p> <ul style="list-style-type: none">● Differentiate between aerobic with anaerobic respiration.

<p>B1 -Tuesday – 4th Period (Zoom)</p>	<ul style="list-style-type: none"> ● Describe anaerobic respiration in yeast and in muscle. ● Compare anaerobic respiration in yeast and muscle cell. ● Significance of oxygen debt during vigorous exercise. <p>Resources: PowerPoint – Fermentation Board works – cellular respiration & Video link</p> <p>https://www.youtube.com/watch?v=cDC29iBxb3w https://www.youtube.com/watch?v=bdzkbzscQm8</p> <p>Students to complete Text book questions pg. 17</p>
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Topic 6-Microbiology and pathogens [6.1.5 and 6.1.6 &6,2 –Antibiotics and Antibiotic resistance, viruses as pathogens]

L.O-Understand action of bactericidal and bacteriostatic antibiotics and explain the difficulties of controlling the spread of antibiotic resistance in bacteria. Explain viruses as pathogens

Biology Students Book 2

<p>B2- Sunday – 0 period (Zoom)</p> <p>B1- Tuesday – 5th period (Zoom)</p>	<p>Students able to-</p> <ul style="list-style-type: none"> ●Analyse the term hospital acquired infections with examples-MRSA and Clostridium botulinum. ●Describe the codes of practice that have been developed to prevent and control HAIs caused by antibiotic resistant bacteria ●Analyse the effectiveness of antibiotics on bacteria ●Evaluate the aseptic techniques <p>Read the fact sheet on antibiotic resistance available on www.microbiologyonline.org.uk (go to 'Free resources').</p> <p>Explain the term superbugs and the infections caused by them</p> <p>The NHS website has a variety of resources and videos. Search for 'superbug' or 'MRSA' for examples. www.science.co.uk/biology/antibioticresistance.html, www.internet4classrooms.com</p> <p>Video and ppt-Health care associated infections MRSA and Clostridium difficile</p>
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	Text Book Page Numbers – 57&58
B1- Thursday – 5th and 6th period(Zoom)	<p>Students able to- Expain the transmission ,mode of infection and pathogenic effect of the influenza virus.</p> <p>BOARD WORKS-AS—Infectious diseases 6-12</p> <p>Video and PPT: Structure and reproduction of influenza virus www.internet4classrooms.com www.science.co.uk/biology/influenzavirus.html,</p> <p>Find out more about the major influenza epidemics that have occurred since the early twentieth century. Note down the key features of each and write a paragraph to explain any differences in infection and mortality rates in different sections of the population.</p> <p>Find out how the names of the H and N subtypes of influenza type A are derived.</p>
B2 - Monday – 8th & Thursday 7th period (Zoom)	<p>Text Book Page Numbers – 66-67</p>