YEAR 13 Batch 1 & 2 - BIOLOGY

WEEK 8 (18th Oct - 22nd Oct)

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

Topic 5.1:- Cellular Respiration

L.O – ● Describe the overall reaction of aerobic respiration- glycolysis, link reaction, Krebs cycle & oxidative phosphorylation. ●Explain the roles of glycolysis in aerobic and anaerobic respiration

Biology Students Book 2

B2 - Sunday – 6th& 7th Period (Zoom) **B1- Monday –1st &2nd Period (Zoom)**	**Students able to** ● Recall the detail structure of mitochondria ● Identify the different stages in aerobic respiration: glycolysis, link reaction, Krebs cycle & oxidative phosphorylation ●Describe the various chemical reactions taking place during cellular respiration. **Resources:** PowerPoint – cellular respiration ,Board works – cellular respiration & Video link **https://www.youtube.com/watch?v=OYQPQEOdCU8** **https://www.youtube.com/watch?v=5GMLIMIVUvo** **Students to complete questions in worksheet put in GC – Cellular respiration – worksheet 1: 1& 2** **Text book questions Q.1-3 pg.24 & Q.6 pg.25**
B2 - Monday– 3rd Period (Zoom) **B1 -Tuesday – 4th Period (Zoom)**	**Students able to** ● Enlist types of reactions and the enzymes involved in glycolysis ● Draw flow chart showing the chemical conversions during glycolysis ●. Calculate ATP production during glycolysis ● Predict the rate of glycolysis in cells if there is the presence of respiratory inhibitor. **Resources:** PowerPoint – Glycolysis ,Board works – cellular respiration & Video link **https://www.youtube.com/watch?v=hDq1rhUkV-g** **https://www.youtube.com/watch?v=6ltUkb5x1_0** **Students to complete questions in worksheet put in GC – Cellular respiration – worksheet 1: 3 – 8**

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Topic 6-Microbiology and pathogens [6.1.4 –Bacteria as pathogens]

L.O- Bacteria can act as agents of infection, invading and destroying host tissues and producing toxins.Understand the action of Exo and endotoxins

Biology Students Book 2

B1- Tuesday – 3rd period (Zoom) **B2- Sunday – 0 period (Zoom)**	**Students able to-** **Describe** how bacteria can act s agents of infection ,invading and destroying host tissues and producing toxins **Explain** that pathogenic effects can be produced by exotoxins ,endotoxins and invasion of the host tissue www.science.co.uk/biology/toxins.html, www.internet4classrooms.com **Video and ppt-Exotoxins and endotoxins** **Text Book Page Numbers – 51-52**
B1- Thursday – 5th and 6th period(Zoom) **B2 - Monday – 8th & Thursday 7th period (Zoom)**	**Students able to-** **Analyse** the case studies with examples-Salmonella and Staphylococcus.**Describe** Causes,Symptoms and the codes of practice that have been developed to prevent and control of Mycobacterium tuberculosis www.science.co.uk/biology/pathogens.html, www.internet4classrooms.com **Video and ppt-Bacteria as pathogens** Visit the website of a charity that aims to combat tuberculosis worldwide and read the recent news updates on the global problem of TB Research and write a detailed account of the tissue damage that *Mycobacterium tuberculosis* can cause and how this is detected. **Text Book Page Numbers – 53-54**