YEAR 13 Batch 1 & 2 - BIOLOGY

WEEK 9 (25th Oct – 28th Oct)

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

Topic 5.1:- Cellular Respiration

L.O – Describe the role of link reaction & Krebs cycle in the complete oxidation of glucose and formation of carbon dioxide (CO2), ATP, reduced NAD and reduced FAD

Biology Students Book 2

B2 - Sunday – 6th & 7th Period (Zoom) **B1- Monday –1st &2nd Period (Zoom)**	**Students able to** ● Enlist types of reactions and the enzymes involved in link reaction & Krebs cycle ● Draw flow chart showing the chemical conversions during link reaction & Krebs cycle ●. Calculate ATP production during link reaction & Krebs cycle **Resources:** PowerPoint – link reaction & Krebs cycle Board works – cellular respiration & Video link **https://www.youtube.com/watch?v=FmEm0CgHGdA** **https://www.youtube.com/watch?v=F6vQKrRjQcQ** **https://www.youtube.com/watch?v=_SkPwVO9BFI** **Students to complete text book questions pg.24-25**
B2 - Monday– 3rd Period **(Zoom)** **B1 -Tuesday – 4th Period** **(Zoom)**	**Assessment via Google forms-20 marks** **Topics-7.2.3 & 7.2.4 – Stem cells** **Topics-7.3 – Gene technology**

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Topic 6-Microbiology and pathogens [6.1.5 and 6.1.6 –Antibiotics and Antibiotic resistance]

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

Biology Students Book 2

B1- Tuesday –5th period (Zoom)	**2nd t assessment via Google forms-20 marks** **Topics-8.1.4 to 8.1.6[Text Book Page Nos-146-153]**
B2- Sunday – 0 period (Zoom)	**Students able to-** ●**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 .●**Explain** the term superbugs and the infections caused by them • The NHS website has a variety of resources and videos. Search for 'superbug' or 'MRSA' for examples. www.science.co.uk/biology/antibioticrsistance.html, www.internet4classrooms.com **Video and ppt-Health care associated infections** **MRSA and Clostridium difficile** **Text Book Page Numbers – 57&58**
B2 - Monday – 8th (Zoom)	Conduct a short quiz to test students' prior knowledge of antibiotics and the development of resistance. Students peer mark each other's answers **Students able to-** ●Analyse the effectiveness of antibiotics on bacteria ●Evaluate the aseptic techniques **BOARD WORKS-AS—Infectious diseases 3-8** **Video and PPT: : https://youtu.be/N2kXkgUN6wE:** **https://youtu.be/dgMi18WbHLk** www.internet4classrooms.com Read the fact sheet on antibiotic resistance available on www.microbiologyonline.org.uk (go to'Free resources' **Real world applications: Use of antibiotics in daily life** **Text Book Page Numbers – 55-56**