

YEAR 12- Batch 1 & 2 - BIOLOGY

WEEK 3 (13th Sept - 17th Sept)

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

Topic 2.2– Prokaryotes

L.O – Describe the ultra structure of prokaryotic cells . Explain Gram Staining technique & Classify Bacteria based on cell wall structure ,shape & mode of respiration .

Biology Students Book 1

B1- Tuesday – 4th (Zoom) B2 – Monday – 5th (Zoom)	Students able to <ul style="list-style-type: none">•Describe the structure & functions of the various parts of the prokaryote cell – cell wall, cell membrane, plasmid, circular DNA ,flagella, capsule , ribosome ,food reserves.• Explain the functions of capsule , pili & plasmid found in prokaryotes.•Compare the structure of pili , fimbriae & flagella Resources: AS Board works ,PowerPoint & Video link https://www.youtube.com/watch?v=W_geqbT3KUc
B1 - Thursday – 1st (Zoom) B2 - Monday – 8th (Zoom)	Students able to <ul style="list-style-type: none">•Distinguish between Gram positive and Gram negative bacterial cell walls and understand why each type reacts differently to some antibiotics.•Describe the procedure used for gram staining used to identify bacterial cells & Co relate how the structure of bacterial cell wall gives difference when stained with gram stain. Resources: AS Board works ,PowerPoint & Video link https://www.youtube.com/watch?v=Jvo6IGKTvxA
B1 - Thursday– 2nd (Zoom) B2 - Wednesday – 5th (Zoom)	Students able to <ul style="list-style-type: none">•Categorise bacteria based on cell shape – bacilli, cocci, spirillum & vibrio•Differentiate facultative & obligative aerobes & anaerobes with relevant examples•Explain how bacteria are classified based on cell wall structure, respiration & shape Students to complete worksheet on Prokaryote & text book questions pg.97 Q.1-3 Resources: AS Board works ,PowerPoint & Video link https://www.youtube.com/watch?v=7AZ41PZBwFc

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

Topic 1-Biological molecules 1 -Lipids

L.O- Understand the synthesis of a triglyceride, including the formation of ester bonds during condensation reactions between glycerol and three fatty acids

Biology student text book 1

<p>B1- Sunday – 8th period</p> <p>B2- Tuesday – 3rd period</p>	<p>GC-Asynchronous learning</p> <p>Research Work</p> <p>Thinking Bigger-33-34 Text book</p> <p>Tetrahalose –A sugar for dry eyes. Collect relevant details about this, answer the questions given on page 33 and task to be turned in Google classroom</p>
<p>B1 - Monday – 1st & 2nd period</p> <p>B2- Thursday – 5th and 6th period</p>	<p>ZOOM SESSION</p> <p>Video and PPT: LIPIDS</p> <p>www.science.co.uk/biology/lipids.html, www.lipids.co.uk</p> <p>Biological molecules-No -13,17,26]</p> <p>:www.science.co.uk/biology/biologicalmolecules.html, www.internet4classrooms.com</p> <p>Text Book Page Numbers – 25 to 27</p> <p>Worksheet – Biological molecules</p> <p>Video and PPT: Lipids</p> <p>Students able to:</p> <p>Define lipids and give examples.</p> <p>Describe how the structure of lipids relates to their role in energy storage, waterproofing and insulation</p> <p>Explain the structure and properties of phospholipids in relation to their function in the cell membranes</p>