

YEAR 12 - Batch 1 & 2 - BIOLOGY

WEEK 7 (11th Oct - 15th Oct)

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

Topic 2.1– Eukaryotes

L.O – Describe the structure of Golgi Apparatus, Compare role of Lysosomes & Peroxisomes & discuss protein transport within cells. Role of vacuoles in animals & plants .Explain Ultra structure of Cell wall & Chloroplast in plant cells

Biology Students Book 1

<p>B1- Tuesday – 4th period(Zoom)</p> <p>B2 – Monday – 5th period(Zoom)</p>	<p>Students able to</p> <ul style="list-style-type: none">●Compare structure & functions of ER & Golgi apparatus .●Differentiate primary lysosomes, secondary lysosomes & residual bodies● Identify the role of vacuoles in animals & plant cells●Explain transport of protein within cells <p>Resources: PowerPoint & Video link</p> <p>https://www.youtube.com/watch?v=yI5x3yI3frU</p> <p>https://www.youtube.com/watch?v=whbJXQpswic</p> <p>https://www.youtube.com/watch?v=nJMwvDMwgLE</p> <p>https://www.youtube.com/watch?v=too8lwzJdT8</p> <p>Students to complete Text book questions pg. 82</p>
<p>B1 - Thursday – 1st period(Zoom)</p> <p>B2 - Monday – 8th period(Zoom)</p>	<p>Students able to</p> <ul style="list-style-type: none">●Identify chemical components that make up the cell wall.●Differentiate Primary & Secondary cell wall .●Significance of Plasmodesmata in plant cells .● Describe the role of vacuoles in animals & plant cells <p>Resources: PowerPoint & Video link</p> <p>https://www.youtube.com/watch?v=yjrLbuzU70k</p> <p>https://www.youtube.com/watch?v=too8lwzJdT8</p> <p>Students to complete Text book questions pg. 85</p>

B1 - Thursday – 2nd period (Zoom)	Students able to
B2 - Wednesday – 5th period (Zoom)	<ul style="list-style-type: none"> ● Draw & label various parts of chloroplast ● Describe the role of various parts of chloroplast ● Compare types of plastids in plants – amyloplast, chloroplast & chromoplast
Resources: PowerPoint & Video link	
https://www.youtube.com/watch?v=eOPEn2qYff4	
https://www.youtube.com/watch?v=9SPP7pJ_hX4	
Students to complete Text book questions pg. 87	

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

Topic 1-Biological molecules 2 [DNA and protein synthesis]

L.O - Understand gene as a sequence of bases on a DNA molecule coding for a sequence of amino acids in a polypeptide chain, genetic code. Analyse the processes of transcription in the nucleus and translation at the ribosome, including the role of sense and antisense DNA, mRNA, t RNA and the ribosomes

Biology Students Book 1

B1- Sunday – 8th period (GC)	GC-Asynchronous learning
B2- Tuesday – 3rd period (GC)	Exam style questions-1.3 text book. Answer the questions given on page 52 & 53 and task to be turned in Google classroom
B1 - Monday – 1st & 2nd period (Zoom)	Students able to- Explain why genetic code is described as universal.
B2- Thursday – 5th and 6th period (Zoom)	Describe with the aid of diagrams, how the sequence of nucleotides within a gene is used to construct a polypeptide, including the roles of messenger RNA, transfer RNA and ribosomes.
Explain amino acid activation and translation.	
Video and PPT: Steps of protein synthesis	

Websites:

www.science.co.uk/biology/proteinsynthesis.html,

www.internet4classrooms.com

- Homework, practice and support: Mastering *Nucleic Acids – Transcription and translation*
- Homework, practice and support: Mastering *Nucleic Acids – Compare and contrast DNA replication and transcription*
- There is an excellent animation at www.nationalstemcentre.org.uk (search for ‘from DNA to protein’).

BOARD WORKS- Protein synthesis-No -4 -10

**Worksheet – Nucleic Acids and Protein Synthesis
Text Book Page Numbers – 44-49**