

YEAR 12 - Batch 1 & 2 - BIOLOGY

WEEK 10 (1st Nov – 5th Nov)

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

Topic 2.1– Eukaryotes

L.O –Describe how the cells of multicellular organisms can be organised into tissues, tissues into organs and organs into systems .Recap of calculations related to magnification & actual size .

Biology Students Book 1

<p>B2- Monday – 5th period(Zoom)</p> <p>B1 - Thursday – 1st period(Zoom)</p>	<p>Students able to</p> <ul style="list-style-type: none"> ● Define key terms tissues, organs & system with examples in plants& animals. ● Differentiate simple & compound tissues in plants & animals with examples <p>Resources: PowerPoint -Tissues & Video link</p> <p>https://www.youtube.com/watch?v=8bzCVSPG6l4</p> <p>https://www.youtube.com/watch?v=bHXmjxOekOY</p>
<p>B2 – Monday – 8th period(Zoom)</p>	<p>Students able to</p> <ul style="list-style-type: none"> ● Recall cell theory. ● Identify organs, tissues & systems in organisms ● Calculate magnification & actual size of cells using the formula <p>$M = O/A$</p> <p>Resources: Worksheet – Tissues & Microscopy</p> <p>Students to complete the worksheet put in GC</p>
<p>B1- Tuesday – 4th period(Zoom)</p>	<p>Assessment via Google forms-20 marks</p> <p>Topics-2.1.3 to 2.1.6</p> <p>Detail structure & functions of various parts & organelles in animal & plant cells</p>
<p>B2 - Wednesday – 5th period (Zoom)</p> <p>B1 - Thursday– 2nd period (Zoom)</p>	<p>Students able to</p> <ul style="list-style-type: none"> ● Identify types of epithelial tissues in – simple squamous, cuboidal, columnar, ciliated, glandular & compound epithelium ● Describe types of epithelial tissues in humans including structural adaptations ● Differentiate endothelium, epithelium & mesothelium

	<p>Resources: PowerPoint _ Tissues & Video link</p> <p>https://www.youtube.com/watch?v=0NEV-Rd7OgA</p> <p>https://www.youtube.com/watch?v=oe-Z9t0KBfU</p> <p>Students to complete Text book questions pg. 89</p>
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Work sent through Google classroom/G mail/Online Quiz/ZOOM Learning Platform

Topic 1.4-Enzymes

L.O - Analyse the Structure of enzymes as globular proteins Specificity of enzymes, activation energy.

Biology Students Book 1

<p>B1- Sunday – 8th period</p> <p>B2- Tuesday – 3rd period</p>	<p>GC-Asynchronous learning-Research Work Thinking Bigger-64-65Text book</p> <p>Raw enzymes-Really ?.Collect relevant details about this, answer the questions given on page 65 and task to be turned in Google classroom</p>
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B1 - Monday – 1st & 2nd period

(Zoom)

B2 - Thursday– 5th & 6th period

(Zoom)

Students able to-

Compare the intracellular and extra cellular enzyme action.

Describe, with the aid of diagrams, the mechanism of action of enzyme molecules.

How to compare the mode of action of enzymes in terms of an active site, specificity in induced fit and lock and key,

What is the significance of enzymes in living organisms

BOARD WORKS –Enzymes-No -3-6]

Video and PPT: Lock and key theory and induced fit theory

Websites:www.science.co.uk/biology/enzymes.html,
www.internet4classrooms.com

- Homework, practice and support: Maths *Graphing– Using graphs and data 1*

Activation energy from friction or direct heating. A video is available at www.sciencefix.com. Search for ‘activation energy’

Text Book Page Numbers – 54-56