

YEAR 13 Batch 1 & 2 - BIOLOGY

WEEK 7 (11th Oct - 15th Oct)

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

Topic 7.3:- Gene Technology

L.O – Describe how genetically modified organisms plants can be produced .Discuss the risks and benefits associated with the use of GM organisms. Significance of replica plating & Knock out mice

Biology Students Book 2

<p>B2 - Sunday – 6th & 7th Period (Zoom)</p> <p>B1- Monday –1st &2nd Period (Zoom)</p> <p>B1 -Tuesday – 4th Period (Zoom)</p>	<p>Students able to</p> <ul style="list-style-type: none"> ● Enlist uses of GMO ● Outline the key steps involved in producing GM plants using Agrobacterium tumefaciens & Bacillus thuringiensis ●. Compare risks & benefits of GM bacteria, GM animals & GM plants <p>Resources: PowerPoint – Genetic engineering ,Board works – gene technology & Video link</p> <p>https://www.youtube.com/watch?v=JtkhHIG3nx4</p> <p>https://www.youtube.com/watch?v=M_ztZGbLEJ0</p> <p>Students to complete text book questions on Pg.126&128</p>
<p>B2 - Monday– 3rd Period (Zoom)</p> <p>B1 -Tuesday – 4th Period (Zoom)</p>	<p>Students able to</p> <ul style="list-style-type: none"> ● Define replica plating ● Outline the key steps involved in Replica plating ● Evaluate the use of knock out mice related to genetic engineering . <p>Resources: PowerPoint –Replica plating & Knock out mice ,Board works – gene technology & Video link</p> <p>https://www.youtube.com/watch?v=uYb-hYSVYw</p> <p>https://www.youtube.com/watch?v=iVY-UkiYfzY&t=348s</p> <p>Students to turn in research work on Replica plating & Knock out mice in GC</p>

	Students to complete text book questions on Pg.131,134 &135
--	---

YEAR 13 Batch 1 & 2 - BIOLOGY

WEEK 7 (11th Oct - 15th Oct)

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

Topic 6-Microbiology and pathogens [6.1.2-Measuring the growth of bacterial cultures]

L.O- Understand the different methods of measuring population growth of bacterial cultures as illustrated by streak plating and rate of growth of bacteria in liquid culture.

Biology Students Book 2

<p>B1- Tuesday – 3rd period (Zoom)</p> <p>B2- Sunday – 0 period (Zoom)</p>	<p>Assessment via Google forms-20 marks</p> <p>Topics-8.1.1to 8.1.3-B1</p> <p>Topics-8.1.3 to 8.1.6-B2</p>
<p>B1- Thursday – 5th and 6th period(Zoom)</p> <p>B2 - Monday – 8th & Thursday 7th period (Zoom)</p>	<p>Students able to-</p> <ul style="list-style-type: none"> ● Explain how to investigate the rate of growth of bacteria I liquid culture ● Analyse and evaluate the advantages and disadvantages of liquid culture. ● Analyse the streak plating technique to isolate individual sp from mixed culture. <p>www.science.co.uk/biology/culture techniques.html, www.internet4classrooms.com</p> <p>Video and ppt-Growth of bacteria in liquid culture and streak plating</p> <p>Resources and advice on cultures of bacteria can be found online, including guides to identifying colony types. Try searching for ‘observing microbes’</p> <p>Text Book Page Numbers – 48 -49</p>

Worksheet – Microbial techniques