

YEAR 12 A - BIOLOGY

Week 9 (17th May to 21st May)

Work sent through Google classroom/G mail/Online Quiz

Topic 4-Exchange and transport

L.O- To revise concepts on transport tissues in plants ,uptake of water by plants and translocation of sucrose .

Biology worksheet file, past papers and text book

Sunday – 8th period	Asynchronous learning- Students will complete the exam style questions based on 4.4 and task to be turned in Google classroom Page numbers -292 and 293[Text Book] Students able to Describe & Compare transport tissues in plants , explain and analyse uptake of water by plants and translocation of sucrose
Monday – 1st 2nd period	ZOOM SESSION- Core practical Investigate factors affecting water uptake by plant shoots using a potometer. Resources: PowerPoint /Board work &Video link Students watch video on core practical https://www.youtube.com/watch?v=Y473UGySx-Q Students able to Enlist few stages to study the effect of factors affecting water uptake by plant shoots using a potometer Predict the effect of factors affecting water uptake by plant shoots using a potometer. Analyse & interpret data one effect of factors affecting water uptake by plant shoots using a potometer. Calculate the transpiration rate of plants subjected to varying environmental conditions . Explain few safety precautions of this method.

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

Topic 3. 2 .Natural Selection & Speciation

L.O – To revise concepts on types of Natural selection , Speciation & Adaptive radiation

Biology Students Book 1

Tuesday – 4th Period	<p>Zoom discussion of questions on natural selection Pg.180 q.1-3 Resources: A2 Board works-Natural selection & Video link https://www.youtube.com/watch?v=1zx0U_yUFnw https://www.youtube.com/watch?v=xQ55DG6Xye8 Students able to</p> <ul style="list-style-type: none">● Predict factors contributing to evolution – overproduction, competition ,survival of fittest, adaptation & inheritance of the change.● Differentiate between natural selection from sexual selection Eg. tail length of African widow birds● Explain, how environmental factors can act as stabilizing or evolutionary forces of natural selection.eg. warfarin resistance in rats, peppered moth& Darwin’s finches.
Thursday – 1st Period	<p>Zoom discussion of questions & Quiz on natural selection Pg.182 q.1-4 Resources: A2 Board works & Video link https://www.youtube.com/watch?v=E6nJosVZf6c https://www.youtube.com/watch?v=4Ci7MRUzABs Students able to</p> <ul style="list-style-type: none">● Identify the stages involved in production of MRSA bacteria● Explain role of mutation & sexual reproduction in production of MRSA bacteria● Evaluate the use of antibiotics
Thursday– 2nd Period	<p>Students to do questions on Speciation Pg.187.q.1-6 and to be turned in Google classroom as Google docs. Resources: Video link https://www.youtube.com/watch?v=VI8OsBJF7PM https://www.youtube.com/watch?v=xRFV5fogo4g Students able to</p> <ul style="list-style-type: none">● Define the term speciation.● Identify & give examples of types of isolation – geographical, ecological, seasonal ,behavioural & mechanical.● Describe types of speciation – allopatric & sympatric speciation● Suggest the significance of speciation and isolation in evolution.

YEAR 12 B - BIOLOGY

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Topic 3. 2 .Natural Selection & Speciation

L.O – To revise concepts on types of Natural selection , Speciation & Adaptive radiation

Biology Students Book 1

Monday – 5th Period	<p>Zoom discussion of questions on natural selection Pg.180 q.1-3</p> <p>Resources: A2 Board works-Natural selection & Video link https://www.youtube.com/watch?v=1zx0U_yUFnw https://www.youtube.com/watch?v=xQ55DG6Xye8</p> <p>Students able to</p> <ul style="list-style-type: none">● Predict factors contributing to evolution – overproduction, competition ,survival of fittest, adaptation & inheritance of the change.● Differentiate between natural selection from sexual selection Eg. tail length of African widow birds● Explain, how environmental factors can act as stabilizing or evolutionary forces of natural selection.eg. warfarin resistance in rats, peppered moth& Darwin’s finches.
Monday – 8th Period	<p>Zoom discussion of questions & Quiz on natural selection Pg.182 q.1-4</p> <p>Resources: A2 Board works & Video link https://www.youtube.com/watch?v=E6nJosVZf6c https://www.youtube.com/watch?v=4Ci7MRUzABs</p> <p>Students able to</p> <ul style="list-style-type: none">● Identify the stages involved in production of MRSA bacteria● Explain role of mutation & sexual reproduction in production of MRSA bacteria● Evaluate the use of antibiotics
Wednesday – 5th Period	<p>Students to do questions on Speciation Pg.187.q.1-6 and to be turned in Google classroom as Google docs.</p> <p>Resources: Video link https://www.youtube.com/watch?v=V18OsBJF7PM https://www.youtube.com/watch?v=xRFV5fogo4g</p> <p>Students able to</p> <ul style="list-style-type: none">● Define the term speciation.● Identify & give examples of types of isolation – geographical, ecological, seasonal ,behavioural & mechanical.● Describe types of speciation – allopatric & sympatric speciation

- Suggest the significance of speciation and isolation in evolution.

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Topic 4-Exchange and transport

L.O- To recall transport tissues in plants ,uptake of water by plants and translocation of sucrose .

Biology worksheet file, past papers and text book

<p>Tuesday – 8th period</p>	<p>Asynchronous learning- Students will complete the exam style questions based on 4.4 and task to be turned in Google classroom Page numbers -292 and 293[Text Book]</p> <p>Students able to :Describe & Compare transport tissues in plants , explain and analyse uptake of water by plants and translocation of sucrose</p>
<p>Thursday – 7th and 8th period</p>	<p>ZOOM SESSION- Core practical</p> <p>Investigate factors affecting water uptake by plant shoots using a potometer.</p> <p>Resources: PowerPoint /Board work &Video link</p> <p>Students watch video on core practical https://www.youtube.com/watch?v=Y473UGySx-Q</p> <p>Students able to: Enlist few stages to study the effect of factors affecting water uptake by plant shoots using a potometer</p> <p>Predict the effect of factors affecting water uptake by plant shoots using a potometer.</p> <p>Analyse & interpret data on effect of factors affecting water uptake by plant shoots using a potometer.</p> <p>Calculate the transpiration rate of plants subjected to varying environmental conditions .</p>

Explain safety precautions of this method.