$\underline{YEAR~9~A\text{-}F-BIOLOGY}$

WEEK 41 (6th June to 10th June)

Work sent to students through Class Bio WhatsApp Group/G mail/Google Classroom

Topics: SB 2e-The brain SB 2f- The brain and spinal cord problems

L.O.: Describe the structures and functions of the brain including the cerebellum, cerebral hemispheres and medulla oblongata. Describe various imaging techniques to identify and treat brain and spinal cord problems

Sunday-Zero period(boys)	Zoom: Describe the structures and functions of the brain
4	including the cerebellum, cerebral hemispheres and
Sunday-7 th period(girls)	medulla oblongata.
	https://www.youtube.com/watch?v=eOoPAcvkKQk
	https://www.youtube.com/watch?v=flpo7xGF8FQ
	Textbook page: 38-39
	Resources : Textbook, Video Links & Power point.
	Students able to:-
	• Label different parts of the brain (cerebellum, cerebral
	hemispheres, medulla oblongata). • Describe the functions of
	different parts of the brain (cerebellum, cerebral
	hemispheres, medulla oblongata) • Explain how the role of
	the cerebral cortex in controlling personality through Gage's
G 3 4st A 3G	incident was concluded.
Sunday -1 st period(boys)	Zoom: Describe various imaging techniques and
Wednesday-2 nd period (Girls)	treatments for brain and spinal cord problems.
	https://www.vo.stube.com/watab2v-Fu-7CdUVDbF8.com/t-1Ca
	https://www.youtube.com/watch?v=Fuv76dJKBkE&t=16s
	https://www.youtube.com/watch?v=zxpb1-okVig
	Textbook page: 40-41
	Resources: Textbook, Video Links & Power point.
	Students able to:-
	•State the advantage of PET and CT scans. •Describe the
	PET scan technique. • Explain why chemotherapy is used to
	kill cancer cells. • Evaluate the limitations in treating damage
	and disease in the brain and other parts of the nervous
	system, including spinal injuries and brain tumours.
	system, including spinal injuries and orain tumours.
Sunday-2 nd period(boys)	GC: Students write answers to textbook qns on The brain on
Wednesday- 3 rd period (Girls)	Pgs 38-39 and turn in their work on GC.
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	Resources: Textbook

YEAR 10 A-F - BIOLOGY

WEEK 41 (6th June to 10th June)

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

SB-5d-Pathogens-AIDS-(Communicable/Infectious Disease)

L.O- Explain how pathogens are spread and how this spread can be reduced or prevented, including AIDS(HIV)-virus

	ZOOM SESSION/GOOGLE MEET
Sunday – 3rd Period (Boys) Sunday – 5th Period (Girls)	Students must watch the video link given below on
	https://www.youtube.com/watch?v=K5zFxfbmC1M
	Read Text book Page- 102-103
	Complete question Page -103-qn 6,S1 &Exam Style question
	Resources: PowerPoint /Board work &Video link
	Students able to:-
	Define term vectors for diseases.Define Communicable Disease. Identify mode of transmission for certain diseases especially HIV. Explain how signs of a disease can be used to identify the pathogen. What are HIV and AIDS. How does

and effects of HIV infection.

HIV replicate. **Describe** the causes, means of transmission

SB-5e-Spreading Pathogen- Malaria & TB-(Communicable/Infectious Disease)

L.O- Explain how pathogens are spread and how this spread can be reduced or prevented, including malaria (protists) – animal vectors, tuberculosis (bacteria) – airborne

	ay-4th period (Boys)	ZOOM SESSION/GOOGLE MEET
Tues	day -1 st Period (Girls)	Students must watch the video link given below on
		https://www.youtube.com/watch?v=aGWP3Xbk0OY
		https://www.youtube.com/watch?v=nAqTKctKV8c
		https://www.youtube.com/watch?v=SP4mghvN3nM

Read Text book Page- 104-105
Complete question Page 105-1,3,6,E1 &S1
Resources: PowerPoint /Board work &Video link
Students able to:-
• Identify the mode of transmission of malaria &TB. Explain how the spread of the Malaria & TB can be prevented. Role of mosquitoes in the spread of malaria. Describe the lifecycle of a malarial parasite . Describe the symptoms, causes,
control measures ,and distribution of Malaria & TB. How is tuberculosis infection caused?

SB5f- Virus life cycles

L.O- Describe the lifecycle of a virus, including lysogenic and lytic pathways

75t p. 1. 1/p.	ZOOM SESSION/GOOGLE MEET
Thursday-1 st Period(Boys) Wednesday-4th period	Students must watch the video link given below on
(Girls)	https://www.youtube.com/watch?v=HZgMHIZUXD8
	https://www.youtube.com/watch?v=Qulwy6ow-Wc
	Read Text book Page- 106-107
	Complete question Page 106- 1,2,4/Page 107- 6,S1 &Exam Style Question
	Resources: PowerPoint /Board work &Video link
	Students able to:-
	Draw and label the structure of a virus. Describe the lysogenic pathway of a virus life cycle. Compare and contrast the lytic and lysogenic pathways. Calculate the cross-sectional area of viral cultures and clear agar jelly.
Thursday 2nd Davied (Pers)	GOOGLE CLASSROOM
Thursday-2nd Period (Boys) Tuesday -2nd Period (Girls)	Students to complete the Text book questions Page 104- 105 and turn in the work in GC

YEAR 11 A - F BIOLOGY (GCSE)

WEEK 41 (6th June to 10th June)

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

Topics SB9m-Rates of decomposition.SB9h-Preserving biodiversity

L.O- Explain the effects of temperature, water content and oxygen availability on the rate of decomposition in food preservation. Explain the benefits of maintaining local and global biodiversity, including the conservation of animal species and the impact of reforestation.

Sunday-6 th period(girls) & 8 th period(boys)	Zoom session-SB9m-Rates of decomposition.
	Text book pages 202 -203
	Resources: Board works & Video link
	https://www.youtube.com/watch?v=bnGaOFataws
	https://www.youtube.com/watch?v=6utMftGxuaI
	Students able to
	• Identify few methods of preserving food • Identify few factors affecting decomposition • Describe how various factors affect compost forming and how each technique is involved in preserving food • Calculate the rate of decomposition of food products • Analyse the data obtained for decomposition of food substances
Monday -3 rd period(girls)	Zoom session –SB9h-Preserving biodiversity
Tuesday -5 th period (boys)	Text book pages-192 to 193 -Discussion of text book questions.
	Resources: Board works & Video
	linkhttps://www.youtube.com/watch?v=bs9e6ovISbs
	https://www.youtube.com/watch?v=iTy6O7YtnP4
	https://www.youtube.com/watch?v=SROoINlp4VY

	Students able to
	 •Identify ways by which animal species be conserved. ●Describe how organisms are conserved using captive breeding programme. •Expalin how does conservation act protect biodiversity and how reforestation affect biodiversity
Tuesday-7 th & 8 th period(girls) Thursday-5 th &6 th period(boys)	Asynchronous lesson SB6c-Absorbing water and mineral ions. Research -The bark of young trees contains a ring of vascular bundles. Forestry workers and gardners protect young trees with plastic tubes around the lower part of their trunk. Why do you think they are being protected from and why is this necessary?
Wednesday6 th period (boys) & 7 th period (girls)	Asynchronous- SB91- The nitrogen cycle Completion of worksheet – Choosing the best method.

YEAR 11 G & H – BIOLOGY (IGCSE)

WEEK 41 (6th June to 10th June)

Work sent to students through Class Bio WhatsApp Group/G mail/Google Classroom

BIOTECHNOLOGY: Antibiotics

L.O.: To describe the production and the effectiveness of different types of vaccines.

Sunday- 4 th period	Asyn GC: AsynchronousAntibiotics
Sunday i period	Research on stages in the normal drug development process.
	https://www.youtube.com/watch?v=w3ykU52K-Hw&t=11s
	https://www.youtube.com/watch?v=_hjBfbMuvPA
	Resources: Video Links
	Students create an infographic on the drug development process.
Monday- 7 th period	Asyn GC: AsynchronousDrug resistance
	Development of Drug resistance and its challenges.
	Students research on the causes and challenges of drug resistance
	and prepare a presentation to inform the general public about the
	threat of antibiotic resistance and ways to prevent it.
	Resources: Video Links & research articles
	Resources. Video Links & research articles
	https://www.youtube.com/watch?v=5VNIL3gbqfI
	https://www.youtube.com/watch?v=L8XYxNqEJqI
	https://science.sciencemag.org/content/364/6435/eaau4679
Tuesday – 3 rd and 4 th	Zoom: Investigate the effect of antibiotics on bacterial
period	growth.
	https://www.youtube.com/watch?v=BkbLI2mAMP8
	https://www.youtube.com/watch?v=sx1uDYSfINA&t=2s
	Resources: Video Links & practical sheet
	Students able to:
	Students able to.
	Identify the risks and hazards during the investigation.
	Calculate the area of the zone of inhibition
	Draw conclusion from the observations.
Wednesday – 5 th period	Asyn GC: Students complete the practical sheet and turn in the
	practical on GC.

YEAR 12 - Batch 1 - BIOLOGY

WEEK 41 (6th June to 10th June)

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

Topic 3.1 - 4 New evidence for evolution

L.O-Role of DNA sequencing ,scientific journals ,peer reviewing & scientific conferences in support of theory of evolution

Topic 3. 2 .Natural Selection

L.O- To discuss concepts on types of Natural selection with examples .

B1-Tuesday – 4 th period(Zoom)	Students able to ●Recall DNA Sequencing in determining evolutionary
P /	
	relationship
	• Significance of scientific journals ,peer reviewing & scientific
	conferences in support of theory of evolution.
	•Compare new evidence of evolution to old evidences of evolution
	Resources: Boardworks & PowerPoint - Study of Genome &
	Video link
	https://www.youtube.com/watch?v=ZzUQVedsdDk
	https://www.youtube.com/watch?v=7lf3Q5BlNWo
	https://www.youtube.com/watch?v=m8gaq7ei7zc
	Students to complete text book questions – Page 161
B1-Thursday - 1 st &	Students able to
2 nd period(Zoom)	 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.
	Resources: A2 Board works-Natural selection & Video link
	https://www.youtube.com/watch?v=1zx0U_yUFnw
	https://www.youtube.com/watch?v=xQ55DG6Xye8
	Students to complete text book questions Pg.180 q.1-3
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YEAR 12 - Batch 2 - BIOLOGY

WEEK 41 (6th June to 10th June)

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

Topic 3. 2 -1 – Evolution and Adaptation

 $L.O-Discuss\ Darwinism\ \&\ Neodarwinism.\ Describe\ Anatomical\ ,Physiological\ \&\ Behavioural\ Adaptations\ linked\ to\ natural\ selection\ .$

Topic 3. 2 .Natural Selection

L.O- To discuss concepts on types of Natural selection with examples .

B2-Monday – 5 th	Students able to
period(Zoom)	• Differentiate Darwinism & Neodarwinism.
B2- Monday –8 th	• Identify & explain Anatomical ,Physiological & Behavioural
period(Zoom)	Adaptations of organisms linked to survival of fittest
	Resources: Boardworks & PowerPoint - Evolution & Video link
	https://www.youtube.com/watch?v=JOk_0mUT_JU
	https://www.youtube.com/watch?v=cC8k2Sb1oQ8
	https://www.youtube.com/watch?v=vnmPdHmRv9o
	Students to complete text book questions - Page 177
B2- Wednesday – 5 th	Students able to
period(Zoom)	 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.
	Resources: A2 Board works-Natural selection & Video link
	https://www.youtube.com/watch?v=1zx0U_yUFnw
	https://www.youtube.com/watch?v=xQ55DG6Xye8
	Students to complete text book questions Pg.180 q.1-3

YEAR 12 B1 & B2- BIOLOGY

WEEK 41 (6th June to 10th June)

Work sent through Google classroom/G mail/Online Quiz/ZOOM Learning Platform Topic - Statitics and revision of core practical based qns

L.O – Explain ,analyse ,evaluate .interpret statistics and revision of core practical based qns

B1- Sunday – 8th period[GC]	GC-Asynchronous learning
B2- Tuesday – 3rd period [GC]	Practical oriented questions Answer the questions given on and task to be turned in Google classroom
D1 Mondoy 1st & 2nd nowled	Students able to
B1 - Monday – 1st & 2nd period (Zoom)	●Define standard deviation and error bar
B2- Thursday – 5th and 6th period(Zoom)	•Interpret and analyse the t test ,correlation and chi square test
	• Differentiate between t test, correlation and chi square test
	BOARD WORKS -AS board works
	Video and PPT: Statistical tests in biology

YEAR 13 B1 & B2- BIOLOGY

WEEK 41 (6th June to 10th June)

Work sent through Google classroom/G mail/Online Quiz/ZOOM Learning Platform L.O –Revise and recall the concepts related to Antibiotics–case study

B1- Tuesday - 5 th period (GC) B2- Sunday - 0 period (GC)	Asynchronous learning-Class work Case study-Anti-adhesive antibiotics ,analyse and evaluate the advantages and disadvantages based on the case study given and task to be turned in Google classroom
	Resources: Case study and worksheets based on Antibiotics Students able to analyse and evaluate the concepts on antibiotics
B1- Thursday – 1 st and 2 nd period(GC) B2 - Monday – 8th & Thursday 7 th period (GC)	Asynchronous learning-Research work Electricity from waste products-analyse and evaluate the

YEAR 13 Batch 1& 2 - BIOLOGY

WEEK 41 (6th June to 10th June)

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

Topic 9.3 – 4:- Thermoregulation

 ${f L.O}$ –.Describe the parts & functions of various parts of the human skin. Explain negative & positive feedback mechanism involved in thermoregulation

B2 - Sunday -6 th & 7 th	Students presenting ppt on Skin structure & Functions in groups allotted
Period (Zoom)	
	Students able to
	• Draw and label various parts of human skin involved in
B1- Monday –1 st & 2 nd	thermoregulation
Period (Zoom)	• Explain the negative feedback mechanism involved in thermoregulation
	Compare positive feedback mechanism to negative feedback
	mechanism involved in thermoregulation
	Resources: Board works & PPT – Structure of human skin &
	Video link
	https://www.youtube.com/watch?v=xUW3E6eDbzU
	https://www.youtube.com/watch?v=baiph3s6M7c
	https://www.youtube.com/watch?v=zcdGJDGXxgs
	Students to complete questions pg.237
	Thinking Bigger Activity – The Cold Killer – Pg 240 –
B2 - Monday- 3rd Period	Students book 2
(GC)	
	Students to read the extract given and answer the qn 1-5
	pg.241 and turn in the document as pdf in GC
B1- Tuesday – 4 th Period	•
(GC)	
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