YEAR 9 A-F – BIOLOGY

WEEK 30 (21st March to 25th March)

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

Topics: SB 3b-Meiosis

L.O.: Explain the role of meiotic cell division, including the production of four daughter cells, each with half the number of chromosomes, and that this results in the formation of genetically different haploid gametes.

Sunday-Zero period(boys) Sunday-7 th period(girls)	Zoom: Assessment 2: Asexual Reproduction, Cancer and Cell differentiation (15 marks)
Sunday -1 st period(boys) Wednesday-2 nd period (girls)	Zoom: Explain the role of meiotic cell division, including the production of four daughter cells, each with half the number of chromosomes, and that this results in the formation of genetically different haploid gametes. https://www.youtube.com/watch?v=micUPynqx9k
	https://www.youtube.com/watch?v=5pvwIsDE6eg Textbook page : 52-53
	Resources: Textbook, Video Links & Power point. Students able to:-
	•Differentiate terms pleuripotent, multipotent and totipotent giving suitable examples. •State the number of chromosomes in a male gamete •Organize the various stages of meiosis in sequence. •Describe the production of gamete cells by meiosis.
Sunday-2 nd period(boys) Wednesday -3 rd period(girls)	GC: Students write answers to textbook qns on Pgs 52-53 and turn in their work on GC.
	Resources: Textbook

YEAR 10 A-F - BIOLOGY

WEEK 30 (21st March to 25th March)

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

SB5b-NON-COMMUNICABLE DISEASES-ALCOHOL& SMOKING DISEASE

L.O- Describe the effects of smoking, drinking alcohol and how it is harmful to health.

Sunday – 3rd Period (Boys)	ZOOM SESSION/GOOGLE MEET
Sunday – 5th Period (Girls)	Students must watch the video link given below on
	https://www.youtube.com/watch?v=YxGqprKIOAc
	https://www.youtube.com/watch?v=H6DrSG_KQjo
	Read Text book Page- 99,101
	Read page 99 complete questions 5-7&S1
	Read Page 101 complete question 5
	Resources: PowerPoint /Board work &Video link
	Students able to:-
	•Define and differentiate the risk on smoking and alcohol consumption. •Give examples of diseases caused due to smoking and alcohol. •Explain the short term and long term effects of alcohol. •Describe the harmful effects of smoking.

SB4f.4&SB4h.4-Worksheet- Genetic engineering & Tissue culture

Monday-4th period (Boys)	ZOOM SESSION/GOOGLE MEET
Tuesday -1 st Period (Girls)	Revision Worksheet SB4f.4-Tissue Culture &
	SB4h.4-GM & Agriculture will be discussed
	by the teacher.
	Zoom Session/Google Meet: Assessment-2
Thursday-1 st Period(Boys)	(15 marks)
Wednesday-4th period (Girls)	Topics SB4e,f,g,h-Genetic Engineering
	& Cloning
Thursday-2nd Period (Boys)	GOOGLE CLASSROOM
Tuesday -2nd Period (Girls	Students to complete the Text book Pages-
	96-97 and turn in the work within the
	assigned period.

YEAR 12 -B1/B2 - BIOLOGY

WEEK 30 (21st March to 25th March)

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

Topic - 4.3.8- Risk factors of Atherosclerosis

L.O – Explain the factors that increase the risk of developing cardiovascular diseases

Biology worksheet file,	past papers and text book, Board works
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B1- Sunday – 8th period[GC] B2- Tuesday – 3rd period [Gc]	GC-Research Work Thinking Bigger-272-273 Text book An artificial Pacemaker–Collect relevant details about this topic answer the questions given on page 273, include bibliography and task to be turned in Google classroom
	Text Book Page Numbers – 272-273
B1 - Monday – 1st & 2nd period (Zoom) B2- Thursday – 5th and 6th period(Zoom)	 Students able to Explain the factors that increase the risk of developing cardiovascular diseases. Explain the difference between risk, correlation and causation Analyse and interpret the graphs given for CVD BOARD WORKS –Life style and disease— 12-24 Video and PPT: Cardiovascular diseases-risk factors :www.science.co.uk/biology/cardiovascular diseases.html, www.internet4classrooms.com Go to www.nhs.uk then search for 'Atlas of riskhealth tools'. Extend: Read about the Framingham Heart Study, a longitudinal study that investigated risk factors for heart disease. Visit www.framinghamheartstudy.org and then click on 'About' to see information on the history and epidemiological design Text Book Page Numbers – 266-267

YEAR 12 - Batch 1 - BIOLOGY

WEEK 30 (21st March to 25th March)

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

<u>Topic 3.1-1 – Principles of classification , Topic 3.1-2-What is a species ? & Topic 3.1-5 – Domains ,Kingdom or both?</u>

L.O – Discuss classification system - five kingdom ,three domain & six kingdom classification and Species model – morphological, biological, ecological, evolutionary & genetic species model

Topic 3.1-3 – Identifying individual species & Topic 7:- Using Gene Sequencing

L.O –Role of PCR & DNA finger printing in identifying species & gene sequencing

Biology Students Book 1 & 2

B1- Tuesday– 4 th	Students able to
period(Zoom)	•Identify types of classification system - five kingdom, three
_	domain & six kingdom classification
	• Compare five kingdom, three domain & six kingdom
	classification
	Resources: Boardworks & PowerPoint - Classification & Video
	link
	https://www.youtube.com/watch?v=nB6exRHHPrY
	https://www.youtube.com/watch?v=fQwI90bkJl4
B1- Thursday– 1 st	Students able to
period(Zoom)	• Differentiate species model - morphological, biological,
	ecological, evolutionary & genetic species model
	•Evaluate use of Binomial system ,Prometheus & VIADOCS
	Resources: Boardworks & PowerPoint - Classification & Video
	link
	https://www.youtube.com/watch?v=skCHK_5LrhQ&t=519s
	https://www.youtube.com/watch?v=sMg_3NY76UE
	Students to complete text book questions – pg.157
B1- Thursday–2 nd	Students able to
period(Zoom)	• Identify stages of PCR & DNA finger printing
	• Describe how PCR amplifies DNA content for analysis
	• Explain role of Gel electrophoresis & southern blotting
	technique, DNA hybridization & autoradiography works in gene
	sequencing
	• Evaluate use of PCR ,Gel electrophoresis , southern blotting
	technique, DNA hybridization & autoradiography, in gene

sequencing
Resources: Boardworks & PowerPoint - Study of Genome &
Video link
https://www.youtube.com/watch?v=QEG8dz7cbnY
https://www.youtube.com/watch?v=CSrUm-EgTK4
https://www.youtube.com/watch?v=z7ZaceU3tfE
Students to complete text book questions – STUDENT'S BOOK
2 - Textbook Questions – Page 95, 97 and 101

YEAR 12 - Batch 2 - BIOLOGY

WEEK 30 (21st March to 25th March)

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

Topic 3.1-3 – Identifying individual species & Topic 7:- Using Gene Sequencing

L.O –Role of PCR, Restriction Mapping , Sanger' Method & DNA finger printing in identifying species & gene sequencing

Biology Students Book 1& 2

B2- Monday – 5 th &8 th	Students able to
period(Zoom)	•Identify stages of PCR & DNA finger printing
_	• Describe how PCR amplifies DNA content for analysis
	• Explain role of Gel electrophoresis & southern blotting technique
	, DNA hybridization & autoradiography works in gene sequencing
	• Evaluate use of PCR ,Gel electrophoresis , southern blotting
	technique, DNA hybridization & autoradiography, in gene
	sequencing
	Resources: Boardworks & PowerPoint - Study of Genome &
	Video link
	https://www.youtube.com/watch?v=QEG8dz7cbnY
	https://www.youtube.com/watch?v=CSrUm-EgTK4
	https://www.youtube.com/watch?v=z7ZaceU3tfE
	Students to complete text book questions – STUDENT'S BOOK
	2 - Textbook Questions – Page 95, 97 and 101
B2- Wednesday– 5 th	Students able to
period(Zoom)	• Identify stages of restriction mapping & Sanger method in gene
	sequencing
	•Explain role restriction mapping & Sanger method in gene
	sequencing
	• Evaluate use of, Restriction mapping & Sanger method in gene
	sequencing

Resources: Boardworks & PowerPoint - Analysis of Genome &
Video link
https://www.youtube.com/watch?v=FF8PL8kQVqI
https://www.youtube.com/watch?v=-QIMkQ4E_wE
https://www.youtube.com/watch?v=-QIMkQ4E_wE&t=52s
Students to complete text book questions – STUDENT'S BOOK 2 –Exam Style Questions - Page 104, 105