GRADE 11 BIOLOGY TERM PLAN

2023 - 2024

TERM ONE: September 8- December 19, 2023

DATES	WEEK	THEORY	LABS/QUIZ/TESTS	
SEPTEMBER				
September 8	WEEK 1 3 Sessions	 Review of End of Year Exam Discuss expectations for CSEC labs and point out common errors made in Grade 10 		
September 11-15	WEEK 2 3 Sessions	 RESPIRATION Aerobic and Anaerobic respiration Define each term Equations for each term Explain what occurs in each type of respiration. Effect of exercise on aerobic and anaerobic respiration 	**Completion of Outstanding Labs *LAB * Matthias's PD For those who have not yet assigned this lab *Lab #1-Enzymes	
September 18-22	WEEK 3 3 Sessions	RESPIRATORY SYSTEM		
September 25-29	WEEK 4 3 Sessions	 IRRITABILITY AND MOVEMENT Definition of 'stimulus' and 'response'; Response of green plants to stimuli Growth movement in plants Response of invertebrates to variations in light 	LAB #2- The effect of exercise on respiration	

		 intensity, temperature and moisture Growth movement of animals Explain why the response to stimuli is important for the survival of organisms OCTOBER 	
October 2-6	WEEK 5 3 Sessions	 IRRITABILITY Receptor and Effector Relationship among the receptor, the central nervous system and the effector explain a simple reflex action describe the functions of the main regions of the brain physiological, social and economic effects of drug abuse 	LAB #3- Respiration- Drawing of gills LAB WRITE UP- • Complete lab write ups for Respiration
October 9-11	WEEK 6 3 Sessions	 Structure and function of the human eye explain accommodation, sight defects and the corrections of each Relate the structure of the human skin to its function in temperature regulation and protection October 12-16 MID TERM BREAK 	LAB - IMPLEMENTATION for IP
Oct 17-20	WEEK 7 3 Sessions	 MOVEMENT relate the structure of the skeleton to its function in humans discuss the importance of 	*Assign Lab #5-Growth of Pea

		locomotion in animals • describe the mechanism of movement in a human forelimb 1st Standardized Test Oct 23 - 27 Week 8	
October30-November3	WEEK 9 3 Sessions	 Review the stages of Mitosis using 2-D diagrams; Group activity Define growth Measurement of growth Growth of insects and crustaceans NOVEMBER	Homework -Drawing external and internal structure of a kidney bean on a blank page and paste in notebook.
November 6-10	WEEK 10 3 Sessions	 GROWTH Factors affecting population growth S-curves Germination Role of mitosis in asexual reproduction 	Handout the procedure for LAB#5-Variation lab.
November 13-17	WEEK 11 3 Sessions	 GENETICS Definitions of terms genes, chromosomes, DNA, etc. Monohybrid cross for codominance incomplete dominance and complete dominance. Practicing the monohybrid cross Introduction of continuous and discontinuous 	Write up LAB #4- Growth of Pea

		variation	
November 20-24	WEEK 12 3 Sessions	VARIATION & NATURAL SELECTION	Worksheet
		 Variation (continuous and discontinuous) Mutation Sex linked disease, sex determination, sickle cell, color blindness, testcross, pedigree chart Continue variation (Example: foot size, presence or absence of horns in cattle, pod size, tongues rolling, and leaf size. Mention genetic and environmental effects). Complete teaching on Variation 	
Nov 27-Dec 1	WEEK 13 3 Sessions	NATURAL SELECTION & EVOLUTION Define Biological species Speciation (definition of speciation, types of speciation (causes by physical/geographical separation; caused by ecological/behavioral differences) Importance of natural selection in preserving useful adaptations, e.g., evolution of cassava plants, sea turtles, Caribbean lizards) Distinguish between natural and artificial selection Explain how natural selection plays a role in	

Г	1	T	,
		biological evolution	
		Examples: peppered moth, the	
		Galapagos finches, bacterial	
		resistance, radiation of the	
		Caribbean lizards.	
		DECEMBER	
		2nd Standardized Test	
		Dec 4-8	
		Week 14	
December 11-15	WEEK 15	Revision for Mock Exam	.Assign Coursework -
	3 Sessions	 What is genetic engineering? How can it be used to change the traits of an organism? Advantages and Disadvantages of genetic engineering: (Social, ethical and ecological implications; 	Group research and presentation of the Advantages and Disadvantages of Genetic Engineering
		Fingerprinting, DNA tests,	
		gene therapy, captive	
		breeding programs).	
END OF TERM			
December 19, 2023			