ASCOT HIGH SCHOOL DEPARTMENT OF SCIENCE GRADE 9 HUMAN AND SOCIAL BIOLOGY

TERM 1: SEPTEMBER-DECEMBER 2025

National Goals:

- 1. Jamaicans are Empowered to Achieve their Fullest Potential.
 - 2. Jamaica has a Healthy Natural Environment

Unit	Duration	Topic	Specific Objectives	Suggested Teaching and Learning Activities	Assignment/ Project	
	Orientation Activities& Diagnostic Test: September 1-12					
Living Organisms and The Environment	3 Weeks Sept. 15– Oct. 3	Characteristics of Living Organisms	Students should be able to: 1. Describe the characteristics of living organisms as movement, respiration, sensitivity (irritability), growth, reproduction, excretion, nutrition.	 Students will be shown various pictures and asked to classify as living and non-living things. Students will watch the video, "Characteristics of Living Organisms" and formulate a definition for each characteristic of living organisms. Video Link: https://www.youtube.com/watch?v=lb_3SNPSLP0&t=131s 	GRADED HOMEWORK: (10%) • Characteristics of Living Organisms Worksheet	
Living Organisms and The Environment	4 Weeks Oct. 6-31	Cells- Unspecialised Plant & Animal Cells	Students should be able to: 1. Define the terms cells, microscope, microscopic, organelles and unspecialised cells. 2. Draw and label an unspecialized plant and animal cells. 3. Compare the structures	View unspecialised plant and animal cells under the microscope. Examine the drawings of the plant and animal cells, then	 GRADED CLASSWORK: (10%) Comparison table of plant and animal cells. Comparison table of animal cell and plant cell to bacterial, viral and fungal cells. Cells Worksheet 	

plant and animal cells. and	differences between the ctures.
the following cell structures: cell wall, cell membrane, nucleus, ribosomes, cytoplasm, mitochondria, vacuoles, chloroplast, endoplasmic reticulum. Comby u	Students will watch the video Comparing Plant and Animal cells. eo Link: s://www.youtube.com/watc =HjC-eMiMDfo npare plant and animal cells using a Venn Diagram. Students will watch the video "Cell City Analogy" then form pairs and construct a table outlining the function of the parts of the cell. eo Link: https://www.youtube.com/watch?v=RQTMmf8dYeM

	Cells-S Microb
	Cells- Special Cells

Selected bes

- 5. Label a bacterial, viral and fungal cell.
- 6. Compare the structures of the unspecialized plant and animal cells to the bacterial, viral and fungal cells.
- In a table students will compare the structures of bacterial, viral and fungal cells to an unspecialized animal and plant cells.

HOMEWORK:

• Draw and Label a fungal, viral and bacterial cells.

lized

- 7. Define the terms specialized cells, tissues, organs, systems, organisms.
- 8. List examples of tissues, organs and systems in animals.
- 9. Relate the structure of specialized cells (epithelial, sperm, egg, nerve, muscle and connective tissue cells) to their functions.
- 10. Explain the importance of cell specialization in humans.

• In groups students present on the structure and function of a named Specialized Cell.

(Creative Expression Piece)

PRACTIAL (20%):

• Students will make a 2D or 3D of a named Specialized cell.





				CRITERIA FOR MODEL:
				✓ Correct Labels (5 marks)
				✓ Clarity of Structures (5 marks)
				✓ Materials used (4 or more) 4 marks
				✓ Creativity (2 marks)
				✓ Neatness (2 marks)
				✓ Evidence of Collaboration (2 marks)
MID TERM DREAK OCTORED 17 20				

MID-TERM BREAK-OCTOBER 16-20 SESSIONAL TEST ONE (WRITTEN PAPER) (20%)

Unit	Duration	Topic	Specific Objectives	Suggested Teaching and	Assignment/ Project
				Learning Activities	
Living Organisms and The Environment	4 Weeks Nov.3-28	Osmosis, Diffusion and Active Transport	Students should be able to: 1. Define the following terms: osmosis,	Experimental activity to demonstrate diffusion using	GRADED HOMEWORK & CLASSWORK (10%)
			diffusion and active transport.	potassium permanganate crystals.	Comparison table for simple
			2. Explain diffusion and osmosis as passive processes and active transport as an active	Experimental Activity to demonstrate osmosis using irish potato.	diffusion, osmosis and active transport
			process in living organisms. 3. Distinguish between	Name the type of process diffusion, osmosis or active transport based on scenarios given.	Worksheets on Diffusion, Osmosis and Active Transport.

osmosis, diffusion and active transport.	Google Quiz: Diffusion, Osmosis, Active Transport.
 Explain the importance of passive and active transport in living Students will watch videos on diffusion, osmosis and active transport. 	•
organisms include examples in plants and animals. Video Link: https://www.youtube.com/watc h?v=PRi6uHDKeW4	
5. Conduct simple investigations on osmosis and diffusion. https://www.youtube.com/watc h?v=eDeCgTRFCbA	

DECEMBER 1-16 REVISION & END OF YEAR EXAMINATION