

ST. MARY'S COLLEGE

CAPE BIOLOGY UNIT 1

Course Outline

Term 1

Unit/ Section	Topic	Modules	Chapter
01	Biochemistry	Water	1
		:01 – structure and properties of water	
		Carbohydrates	
		:02- structure and function of glucose and relationship to sucrose	
		:03 –structure and function of starch, glycogen and cellulose and relationship in living organisms	
		Lipids	
		:04- molecular structure of triglycerides and function	
		Proteins	
		:05- structure of amino acids and peptide bond formation	
:06-formation of primary, secondary, tertiary and quaternary structure			
		:07-molecular formation of haemoglobin and collagen	
		:08- Structure of nucleotides	
02	Cell structure	:01- drawings of typical animal and plant cells under microscope and related organelles	2
		:02- structure and function of cell membrane; transport across the membrane	
		:03-function of organelles in both animal and plant cells	
		:04- structure and function of prokaryotic and eukaryotic cells	
		:05-Concepts of tissues and organs	