

TERM: Sept – Dec 2020

DEPARTMENT: Science

SUBJECT/ FORM : Biology / Form 3

TEACHER: S. Ogeerally

Topics aligned with CSEC Syllabus objectives . Syllabus can be downloaded for free from CXC website .

WEEK	Topic
1	<p>-Characteristics of living things (GRIMNER)</p> <p>-Grouping living organisms found in a named habitat based on observed similarities and differences</p>
2	<p>CLASSIFICATION:</p> <p>-Classification of organisms into taxonomic groups based on physical similarities/ differences (Classification of all living organisms into the five kingdoms: Plantae, Animalia; Fungi (mushroom), Prokaryotae (Bacteria) and Proctotista (amoeba).</p>
3	<p>- Subdivision of the Animal Kingdom into Phyla, for example, Chordata</p> <p>-Modern classification ,Use of DNA sequences to determine ancestry</p>
4	<p>ECOLOGY</p> <p>-Explain the terms ecology, environment and ecosystem</p> <p>-Distinguish between the following pairs of terms:</p> <ul style="list-style-type: none">a) Abiotic and biotic factorsb) Niche and habitatc) population and communityd) Species and population

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	<ul style="list-style-type: none">-Types of habitats- terrestrial (arboreal and edaphic) and aquatic habitats (marine and freshwater) and their features-Relationship between organism and habitat- adaptations that enable the organism(s) to survive in that habitat
WEEK	Topic
5	ECOLOGY <ul style="list-style-type: none">-Collecting and sampling methods used in simple ecological studies (use of pooters, bottles , jars, nets, sieves, quadrats, line and belt transects, mark and release methods to collect data on organisms from a named habitat)-Relationship between equipment used and habitat and species being investigated.
WEEK	Topic
6	<ul style="list-style-type: none">- Use of quadrat to investigate the distribution of species in a particular habitat-Use of quadrat to calculate Species Density, Frequency, Vegetation cover
7	ECOLOGY <ul style="list-style-type: none">- -Discuss the impact and importance of abiotic factors -(soil , air, climate: light and temperature)

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	- Components of soil and their importance
8	LAB SKILLS : -Determining the amount of air in soil and its pH -Comparing the water retention capacities of various soil types
WEEK	Topic
9	FOOD CHAINS AND FOOD WEBS -The positions of producers and consumers in food chains. -Construction of food chains and simple pyramids. -Identification of food chains containing at least four organisms: a) Terrestrial (arboreal and edaphic) b) Aquatic (marine and freshwater)
WEEK	Topic
10	FOOD CHAINS AND FOOD WEBS -Identification of carnivore, herbivore, omnivore, predator/prey relationships from habitats -Importance of predator /prey relationships in Biological control. Examples of the use of predator /prey relationships in Biological control -Construct food webs with different trophic levels. -Identification of different trophic levels in food webs - Energy flow within a food chain or web; non-cyclic energy flow from the sun.

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	- Role of decomposers- bacteria and fungi in converting complex compounds to simple substances and in the Carbon Cycle
WEEK	Topic
11	-Special relationships among organisms; parasitism, commensalism, mutualism -Examples to include lice and ticks on mammals, epiphytes on trees, nitrogenfixing bacteria in root nodules of legumes. Give names of partners.
12	-The impact of the continual re-use of materials in nature; The Carbon Cycle
13	Revision using CSEC Past Paper questions