



BIOLOGY SCHEME
SS2

SN	TOPICS	CONTENTS
1.	THE CELL AND ITS ENVIRONMENT	<ul style="list-style-type: none"> - Revision - Cell as a living unit - Forms in which living cell exist - The cell theory
2.		<ul style="list-style-type: none"> - The cell structure and functions of its components - Similarities between plants and animals - Physical and biological processes
3.	SOME PROPERTIES AND FUNCTIONS OF THE CELL	<ul style="list-style-type: none"> - Nutrition, mineral salt - Effect of different nutrients on the cell or organism - Cellular respiration - Aerobic respiration - fermentation - comparison of aerobic and anaerobic respiration - importance of respiration - experiment on respiration - excretion - growth - factors affecting growth - cell's reaction to its environment - movement - organelles for movement
4.	TISSUE AND SUPPORTING SYSTEMS	<ul style="list-style-type: none"> - Cell division (Mitosis) - Meiosis - Skeleton and supporting tissues in animals - The mammalian's skeleton - Bones of the vertical column
		<ul style="list-style-type: none"> - Structure of a typical vertebra - Mechanism of support in animals.

		<ul style="list-style-type: none"> - Mammalian skeleton and mechanism of movement - Joints and movement in vertebrate
5.		<ul style="list-style-type: none"> - The functions of the skeleton - Types of supporting tissue in plants - Mechanism of support in plants - Functions of supporting tissues in plants

6.	ALIMENTARY SYSTEM	<ul style="list-style-type: none"> - Types of alimentary canal - Parts of the alimentary canal - Feeding habit - Feeding habits
7.		<ul style="list-style-type: none"> - Feeding in protozoan - Feeding in hydra - Feeding in mammals
8.	TRANSPORT SYSTEM	<ul style="list-style-type: none"> - Need for transportation - Materials for transportation - Mechanism of transportation - Similarities among mechanism of transportation
		<ul style="list-style-type: none"> - Transportation in mammals - Composition of blood - Functions of the system - Circulatory system - Mechanism of transportation in higher animals.
		<ul style="list-style-type: none"> - Lymphatic system - Mechanism of transportation in plants - Movement of water in plants - Roots pressure and Transportation pull.
9.	RESPIRATORY SYSTEM	<ul style="list-style-type: none"> - Respiration - Breathing surfaces and organs - Characteristics of gas exchange surfaces - Mechanism of gaseous exchange
		<ul style="list-style-type: none"> - Breathing in insects - Breathing in fish - Breathing in the toad

		<ul style="list-style-type: none"> - Mechanism of breathing in mammal - Gas exchange in plants
10.	EXCRETORY SYSTEMS AND MECHANISM	<ul style="list-style-type: none"> - Types of excretory system - Excretory mechanism of earthworm - Excretory mechanism in mammals

11.	AQUATIC HABITAT	<ul style="list-style-type: none"> - Revision - Marine Habitat - Characteristics and main zone - Distribution of plant and Animal in the habitat.
12.		<ul style="list-style-type: none"> - Adaptive features of plants and Animal in marine habitat - Estuarine habitat - Characteristics and types of estuarine - Distribution of plants and Animals in estuarine habitat.
		<ul style="list-style-type: none"> - Adaptive features of plants and animals in estuaries - Freshwater habitat and its characteristics - Adaptive feature of organism in freshwater.
13.	TERRESTRIAL HABITAT	<ul style="list-style-type: none"> - Marsh, kids and Formation. - Organic living in marshes - Adaptive features of organism in marshes - Forest, its characteristics
		<ul style="list-style-type: none"> - Strata in the forest - Distribution of plants and animals in the forest. - Adaptive features of plants in a forest
		<ul style="list-style-type: none"> - Grassland and its characteristics - Types of savanna - Distribution of plants and animals in grassland.

		<ul style="list-style-type: none">- Adaptive of grassland plants
		<ul style="list-style-type: none">- Arid land and its characteristics- Types of arid land- Distribution of plants and animals in arid land- Some adaptation of plants to arid land
14.	ECOLOGYOFPOPULATION	<ul style="list-style-type: none">- Ecological succession, its characteristics- Outcome of succession- Effect of overcrowding- Factor affecting population