



BIOLOGY SCHEME SS1

SN	TOPICS	CONTENTS
1.	BIOLOGY AND LIVING THINGS	<ul style="list-style-type: none"> - introduction - methods of inquiry in biology - characteristic of living things - relationship between living and nonliving things
2.	PLANTS AND ANIMAL	<ul style="list-style-type: none"> - major groups in the plant kingdom - major groups in the Animal kingdom - organization of lye
3.	PLANT NUTRITION	<ul style="list-style-type: none"> - Photosynthesis - Mechanism of photosynthesis - Materials and conditions necessary for photosynthesis - Evidence of photosynthesis - Importance of photosynthesis
4.	ANIMAL NUTRITION	<ul style="list-style-type: none"> - Mineral salt required of plants. - Nitrogen cycle - Food substances - Importance of food substances - Balance diet - Food test - Digestion enzymes - Characteristics of enzymes
5.	MODES OF NUTRITION	<ul style="list-style-type: none"> - Atrophic nutrition - Photosynthetic nutrition - Chemosynthetic nutrition - Heterotrophic nutrition
6.	PRACTICAL CLASS	<ul style="list-style-type: none"> - Types of nutrition - Classes of food - Test for starch in photosynthetic plants - Test for food substances

7.	BASIC ECOLOGICAL CONCEPTS	<ul style="list-style-type: none"> - Revision - Ecological concepts - Components of an ecosystem - Biotic community in Nigeria - Population studies - Population sampling - Factors that affect population - Ecological factors - Importance of some ecological factors to population - Relationship between soil types and water holding effects of soil on vegetation - Effect of soil water on vegetation - Simple measurement of ecological factors
8.	FUNCTIONING ECOSYSTEM	<ul style="list-style-type: none"> - Autotrophic and heterotrophic organism - Trophic levels - Food Chain and food web - Energy flow - Energy transformation in nature - Laws of thermodynamic - Nutrient cycle in nature - The carbon cycle - Importance of carbon - The water cycle - Importance of water - Decomposition in nature
9.	ECOLOGICAL	<ul style="list-style-type: none"> - Association : Parasitism, Saprophytism,

10.	MANAGEMENT AND CONSERVATION	symbolism, commensalism - Adaptation to environmental factors - Adaptation of plant to aquatic and terrestrial habitats - Adaptation of animals to aquatic and terrestrial habitats. - Morphological adaptation of tadpole and fish to aquatic habitat - Adaptation of the chameleon - Tolerance, Geographic range - Pollution of the atmosphere - Air pollutants and their effects - Oil spill, soil pollution
11.		- Conservation of natural resources - The need for conservation - Ways of conserving forest - Revision

12.	MICRO-ORGANISM AROUND US AND IN ACTION	- Revisions - Groups of micro-organisms - Concepts of cutting - Culture solution preparation - Identification of micro-organism - Micro-organism in our food and bodies - Carriers of micro-organism - Effects of micro-organism - Plant diseases - Animal diseases
13.	TOWARDS BETTER HEALTH	- Control of micro-organism - Vectors - Ways of controlling vectors - Maintenance of good health - Functions of local public Health Authorities - Health organizations.

14.	RELEVANCE OF BIOLOGY TO AGRICULTURE	<ul style="list-style-type: none">- Classification of plants- Effects of agricultural activities on ecological system- Control of plant pest, Animal pest- Plants and Animal disease- Food production and storage- Ways of improving crop yields- Causes of wastages- Methods of preserving and storage of food
		<ul style="list-style-type: none">- Population growth and food supply- Factors affecting availability of food.- Relationship between food availability and human population.