

## **SENIOR FIVE TERM ONE**

### **Topic 1: Cell Biology**

- Sub-Topic 1: Cell Structure and Microscopy
- Sub-Topic 2: Diversity of Specialised Cells and Tissues
- Sub-Topic 3: Chromosomes
- Sub-Topic 4: Cell Division and Chromosome Concept
- Sub-Topic 5: Protein Synthesis.

### **Topic 2: Chemicals of Life.**

- Sub-Topic 1: Acids, Bases and Salts
- Sub-Topic 2: Water
- Sub-Topic 3: Structure of Carbohydrates
- Sub-Topic 4: Structure of Lipids
- Sub-Topic 5: Structure of Proteins.
- Sub-Topic 6: Vitamins
- Sub-Topic 7: Enzymes

## **SENIOR FIVE TERM TWO**

### **Topic 3: Cell Physiology**

- Sub-Topic 1: Movement In and Out of Cells.

### **Topic 4: Levels of Organisation and Diversity of Life**

- Sub-Topic 1: Diversity of Living Things
- Sub-Topic 2: Viruses (Akaryotae).
- Sub-Topic 3: Kingdom Monera
- Sub-Topic 4: Kingdom Protoctista.
- Sub-Topic 5: Kingdom Fungi.
- Sub-Topic 6: Kingdom Plantae
- Sub-Topic 7: Kingdom Animalia

### **Topic 5: Ecology**

- Sub-Topic: Components of the Environment
- Sub-Topic 2: Concept of Ecosystem
- Sub-Topic 3: Population and Natural Resources.
- Sub-Topic 4: Interdependence
- Sub-Topic 5: Effects of Human Activities on Ecosystems

## **SENIOR FIVE TERM THREE**

### **Topic 6: Inheritance and Evolution**

- Sub-Topic 1: Genetics
- Sub-Topic 2: Chromosomes and Genes
- Sub-Topic 3: Variation
- Sub-Topic 4: Population Genetics
- Sub-Topic 5: Origin of Life
- Sub-Topic 6: Mechanisms of Evolution
- Sub-Topic 7: Evidence of Evolution
- Sub-Topic 8: Selection and Speciation

### **Topic 7: Transport**

- Sub-Topic 1: Necessity for Transport Systems
- Sub-Topic 2: Water as a Medium in Plants and Animals.
- Sub-Topic 3: Circulatory Systems in Animals
- Sub-Topic 4: Defence against Diseases
- Sub-Topic 5: Vascular System of Flowering Plants

## **SENIOR SIX TERM ONE**

### **Topic 8: Nutrition.**

- Sub-Topic 1: Autotrophic Nutrition
- Sub-Topic 2: Heterotrophism

### **Topic 9: Gaseous Exchange.**

- Sub-Topic 1: Principles of Gaseous Exchange Systems
- Sub-Topic 2: Gaseous Exchange in Plants
- Sub-Topic 3: Gaseous Exchange in Animals

### **Topic 10: Respiration**

- Sub-Topic 1: Respiration

### **Topic 11: Homeostasis**

- Sub-Topic 1: General Principles of Homeostasis.
- Sub-Topic 2: Regulation of Glucose
- Sub-Topic 3: Regulation of Respiratory Gases
- Sub-Topic 4: Temperature Regulation
- Sub-Topic 5: Excretion
- Sub-Topic 6: Osmoregulation

## **SENIOR SIX TERM TWO**

### **Topic 12: Coordination**

- Sub-Topic 1: Concepts of Reception and Response in Plants
- Sub-Topic 2: Plant Hormones
- Sub-Topic 3: Response and Behaviour in Animals
- Sub-Topic 4: General Principles of Reception and Response in Animals.
- Sub-Topic 5: Nervous Coordination in Animals.
- Sub-Topic 6: Hormonal Coordination in Animals.

## **SENIOR SIX TERM THREE.**

### **Topic 13: Support and Movement**

- Sub-Topic 1: Support Systems in Plants and Animals
- Sub-Topic 2: Muscles
- Sub-Topic 3: Movement / Locomotion

### **Topic 14: Reproduction, Growth and Development.**

- Sub-Topic 1: Asexual Reproduction
- Sub-Topic 2: Sexual Reproduction in Animals
- Sub-Topic 3: Sexual Reproduction in Lower Organisms and Plants
- Sub-Topic 4: Growth and Development.