



YEARLY OVERVIEW FOR IGCSE BIOLOGY

FORM 3

TERM 3 TOPICS

- (1) Classification
- (2) Cells
- (3) Movement in and out of Cells
- (4) Enzymes

FORM 4

TERM 1 TOPICS

- (1) Biological Molecules
- (2) Human Nutrition

Diet

Alimentary canal

Mechanical digestion

Chemical digestion

Absorption

- (3) Plant nutrition

Photosynthesis

Leaf Structure

Mineral requirements



(4) Transport in plants

Water transport in plants

Water uptake

Transpiration

Translocation

TERM 2 TOPICS

(5) Transport in animals

Transport in animals

Heart

Blood and lymphatic vessels

Blood

(6) Diseases and Immunity

(7) Gaseous exchange in humans

(8) Respiration

Aerobic respiration

Anaerobic respiration

(9) Excretion in humans

TERM 3 TOPICS

(10) Coordination and response

Nervous control in humans

Sense organs

Hormones in humans

Homeostasis

Tropic responses



(11) Drugs

Medicinal drugs

Misused drugs

FORM 5 TOPICS

TERM 1

(12) Reproduction in humans

Sexual reproductive organs

Sex hormones in humans

Methods of birth control in humans

Sexually transmitted infections (STIs)

(13) Inheritance

Inheritance

Chromosomes, genes and proteins

Mitosis

Meiosis

Monohybrid inheritance

(14) Variation and Selection

Variation

Adaptive features

Selection



(15) Organisms and their Environment

Energy flow

Food chains and food webs

Nutrient cycles

Population size

TERM 2

(16) Biotechnology and genetic engineering

Biotechnology and genetic engineering

Biotechnology

Genetic engineering

(17) Human influence on ecosystems

Food supply

Habitat destruction

Pollution

Conservation

TERM 3

Revision for the final examinations



YEARLY OVERVIEW FOR AS BIOLOGY

TERM 1 TOPICS

(1) BIOLOGICAL MOLECULES

- (a) Water
- (b) Carbohydrates
- (c) Lipids
- (d) Proteins
- (e) Biochemical tests
- (f) Nucleic Acids
- (g) Enzymes

(2) CELL STRUCTURE

- (a) Cells and Microscopy
- (b) Size and Magnification
- (c) Plant and Animal Cells
- (d) Bacteria
- (e) Prokaryotes versus Eukaryotic Cell Structure
- (f) Viruses
- (g) Cell Membrane Structure and Function
- (h) Transport across Membranes
- (i) Mitotic Cycle
- (j) DNA and Protein Synthesis

TERM 2 TOPICS

(1) TRANSPORT IN PLANTS

- (a) Plant Anatomy and Histology
- (b) Transport of Water and Mineral Salts
- (c) Transport of assimilates

(2) TRANSPORT IN MAMMALS

- (a) Mammalian heart
- (b) Circulatory system

(3) GAS EXCHANGE AND SMOKING



- (4) DISEASES AND PROTECTION AGAINST DISEASES
- (a) Diseases and Smoking
 - (b) Infectious diseases
 - (c) Antibiotics
 - (d) Immunity

TERM 3 TOPICS

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YEARLY OVERVIEW FOR A- LEVEL BIOLOGY

TERM 1 TOPICS

- (1) Energy and Respiration
- (2) Photosynthesis
- (3) Homeostasis
- (4) Control and Coordination
- (5) Planning, Analysis and Evaluation

TERM 2 TOPICS

- (1) Inherited Change
- (2) Selection and Evolution
- (3) Biodiversity, Classification and Conservation
- (4) GENETIC TECHNOLOGY

TERM 3 TOPICS

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