

Biology Curriculum Content Overview:

YEAR 9

Cells, Microscopy

Organs and systems in Plants

Microorganisms, Communicable Diseases

Human Defence Mechanisms, Vaccination, Drug Development

Monoclonal Antibodies

Plant Diseases and Defences

Resistant Bacteria

Lifestyle, Non-Communicable Diseases and Cancer

YEAR 10

Nervous System, Brain, Eye

Endocrine System and Homeostasis (to include control of body temperature, blood glucose, water and ion content of blood)

Hormones, the menstrual cycle, fertility and contraception, negative feedback

Plant Hormones and Tropisms

Photosynthesis, respiration and Metabolism

Trophic levels, Pyramids of Biomass

Cycling of Materials, Decomposition

Impact of Environmental Change, Maintaining Diversity, Waste Management, Deforestation, Food Security.

YEAR 11

Diffusion, Osmosis, Active Transport

Digestive and Circulatory systems.

Mitosis, Meiosis and Sexual and Asexual Reproduction

DNA, Genetic Inheritance (to include genetic disorders)

Variation, Evolution, Selection, Genetic Engineering

Classification

Communities