

Programme of Study



Subject: Biology (Exam board AQA)

Year: 10 (Triple and Trilogy)

Autumn 1

- Communicable Disease
- Viral Diseases
- Fungal and Protist Diseases
- Bacterial Diseases and Preventing Disease
- Fighting Disease – Vaccination, drugs
- Developing drugs
- Monoclonal antibodies (triple only)
- Required practical: Culturing Microorganisms (triple only)

Autumn 2

- Photosynthesis
- How plants use Glucose
- The rate of Photosynthesis
- Required practical : Investigating the rate of Photosynthesis
- Aerobic respiration
- Anaerobic respiration
- Metabolism

Spring 1

- The Nervous system, synapses and reflexes
- Required Practical : Investigating Reaction Time
- The Brain and Eye (triple only)
- Controlling Body temperature (triple only)
- Hormones and controlling Blood glucose
- Controlling water content and Kidney failure(triple only)

Spring 2

- Puberty and Menstrual Cycle
- Contraceptives and Increasing fertility
- Thyroxine and Adrenaline
- Plant Hormones(triple only)
- Uses of plant hormones
- Required Practical: Investigating Plant growth responses (triple)

Summer 1

- **Types of Reproduction**
- **The structure of DNA**
- **Meiosis**
- **Protein synthesis and Mutations (triple only)**
- **Alleles, Chromosomes and genetic diagrams**
- **Inherited disorders**
- **The work of Mendel (triple only)**

Summer 2

Variation, Evolution and extinction
Ideas about evolution (triple)
Selective breeding
Genetic Engineering
Fossils
Antibiotic resistant Bacteria
Classification
Cloning and Speciation (triple)