

BIOLOGY



Skills

Mastery in Year 11

- Analyse draw graphs, analyse data from graphs, analyse hypothesis and validity.
- Communicate construct explanations, choose appropriate revision methods.
- Apply confidently use exam scores that allow full access to questions and clear application of content.

Mastery in Year 10

- Enquire write methods, plan variables, identify hypotheses, collect results.
- Analyse extract data from graphs and tables, calculate quantities based on graphs and analyse hypothesis.
- Communicate construct explanations, write clearly and concisely.

Mastery in Year 9

- Recall factors identify revision techniques, remember key definitions, rearrange equations.
- Apply develop exam skills that allow full access to questions and clear application of context.
- Analyse discuss limitations of methods, construct explanations.

Mastery in Year 8

- Communication Use observations and data to formulate conclusions.
- Analyse evaluate data, recognise anomalies in data, construct explanations.
- Solve calculate mean and range, review theories.

Mastery in Year 7

- Enquire follow methods, identify hypothesis, collect results, identify hazards and safety precautions.
- Analyse draw results tables, describe patterns and make conclusions from graphs.
- Structure to make concise notes in lab books.

Knowledge

Describe how different molecules circulate through the circulatory systems.

Topic eight - Exchange and Transports

Review cell transport and respiration and how the circulatory systems aids these processes.

Topic seven – Hormones

Describe the effects of hormones on the body.



Topic six – Plant Structures

Describe how plants are adapted for photosynthesis.

J Topic four - Natural Selection

Explain the theory of evolution by natural selection.

Topic five – Health and Disease

Explain the transmission and prevention of disease, including pandemics.

Topic three – Genetics

Describe how DNA is stored in cells and how it determines the physical properties of an organism.



Topic two - Cells and Control

Explain how cells are specifically adapted for their function and describe the nervous system.

Genetics and Evolution

Describe how DNA is stored in cells and how it determines the physical properties of an organism.



Topic one - key concepts in biology

Describe and explain cell structure, enzymes and cellular transport.

Plant Growth

Describe how the environment affects plant growth.

Introduction to plants

Describe the structure of plants and their fertilisation.

Breathing and Respiration

Explain how cells are adapted to release energy through respiration and photosynthesis.

Describe the process of fertilisation and the signs of pregnancy.

Sexual Reproductions

Describe what a healthy lifestyle looks like and what the nutritional requirements of a human body are.

Food and Nutrition



Health and Disease

How our immune system responds to infection.

Describe how the human body responds to exercise.

Human Biology

How living organisms interact with their environment.

Ecosystems

Recall and explain the structure of animal cells and organ systems.

Cells, Tissues and Organ systems 1