

Separate and Combined Science (S = separate science only)

Year 9

B1.1 Cells

Animal and Plant Cells
Prokaryotic Cells
Using a Microscope Practical
Size Calculations
Electron Microscopes

[Cells Test Result](#)**B1.2 Reactions in Cells**

DNA structure
Protein synthesis
How Enzymes Work
Enzyme Practical
Factors that Affect Enzymes

[DNA and Enzymes Test Result](#)**B1.3 Respiration**

Proteins, fats, sugars and starch
Testing Biological Molecules Practical
Aerobic Respiration
Anaerobic Respiration
Exercise Practical

[Respiration Test Result \(Yr 9 exam\)](#)**B1.4 Photosynthesis**

Photosynthesis equation
Testing Leaves for Starch Practical
Factors affecting Photosynthesis Rate
Pondweed Practical
Limiting Factors

[Photosynthesis Test Result](#)**Sex Education PSHE Lessons (not examined)**

Contraception
STI
Menopause and Infertility

Year 10

B2.1 Membranes and Mitosis

Diffusion, Osmosis and Active Transport
Osmosis Practical
Mitosis and Cell Division
Stem cells and Specialised Cells

[Membranes and Mitosis Test Result](#)**B2.2 Transport Around Organisms**

SA to Volume Ratio
Alveoli and Villi
Human Circulatory System
Exercise Practical
Plant Transport

[Transport Test Result](#)**B3 Nerves and Hormones**

Nerves and Reflexes
Eyesight **S**
The Brain **S**
Hormones, Adrenaline and Thyroxine
Homeostasis and -ve Feedback
Reproductive Hormones
IVF and Contraception
Glucose Control
Kidneys **S**
Plant Hormones **S**

[Year 10 Exam Result](#)**B4 Ecology**

Food webs and energy flow
Ecology Pyramids
Interactions between Organisms
Nutrient Cycles
Decomposers **S**

[Ecology Test result](#)

B5 Genetics

Variation and Meiosis
Genetic Crosses
Effects of Mutation
History of Genetics S
Natural Selection and Evolution
Classification

[Genetics Test Result](#)

B6.1 The Environment

Sampling and Practical
Biodiversity Loss
Conservation

[Mock Exam Result](#)

B6.2 Food Security

Food security and Farming S
Selective Breeding
Genetic Engineering

B6.3 Health and Disease

Communicable Disease
Human Disease
Plant Disease
The Immune System
Medicine and Antibiotic Practical

Non-Communicable Disease
Heart Disease
Modern Medicine

Revision for GCSE Summer Exams

Further study resources for independent work

You should have a kerboodle login for access to the online textbook.

You may choose to buy a CGP revision guide or workbook and answers from the department.

You should have an educake login which gives access to lots of short factual recall questions.

Many students find Seneca online learning a useful revision resource.

But good independent study is also just to review your classwork.