



Examination Board: CCEA

## Overview

The course encourages you to develop skills alongside understanding of concepts and principles in Biology and the thinking skills needed for the use of these in new and changing situations. It emphasises the way in which scientists work and the contributions of science to modern society and the economy. You are also encouraged to recognise the responsible use of Biology in society.

## AS LEVEL

Unit	Content	Assessment
<b>AS 1: Molecules &amp; Cells</b>	This unit deals with molecules, enzymes, viruses, cells, cell physiology, continuity of cells and tissues and organs.	37.5% of AS 15% of the total A Level Marks
<b>AS 2: Organisms &amp; Biodiversity</b>	This unit covers transport and exchange mechanisms in plants and mammals, adaptations of organisms and biodiversity with an emphasis on local contexts.	37.5% of AS 15% of the total A Level Marks
<b>AS 3: Practical Skills in AS Biology</b>	External written examination assessing practical skills – 1 hour and internal practical assessment. Students should submit at least seven practical tasks listed in the syllabus.	25% of total AS marks 10% of total A Level Marks

## A LEVEL

Unit	Content	Assessment
<b>A2 1: Physiology, Co-ordination and Control &amp; Ecosystems</b>	This unit homeostasis including the kidney and excretion, immunity, co-ordination and control in plants and animals and ecosystems	24% of the total A-Level Marks
<b>A2 2: Biochemistry, Genetics &amp; Evolutionary Trends</b>	This unit covers the biochemical processes of respiration and photosynthesis.  Students explore genetics on a number of levels. Students also learn about a variety of phyla in the plant and animal kingdoms.	24% of the total A-Level Marks



## A LEVEL

Unit	Content	Assessment
<b>A2 3: Practical Skills in AS Biology</b>	This unit includes a series of required practical tasks and a 1 hour 15 minute written examination assessing practical skills. Students should submit at least five of the tasks listed in the syllabus.	12% of the total A-Level Marks

## Careers

Biochemist, Biology Teacher, Botanist, Dietician, Optometrist, Doctor, Ecologist, Environmental Health Officer, Environmental Scientist, Health Care Assistant, Careers in Horticulture, Laboratory Technician, Landscape Architect, Marine Biologist, Microbiologist, Careers in the Ambulance Service, Nutritionist, Pathologist, Pharmacist, Physiotherapist, Radiographer, Veterinary Nurse, Veterinary Surgeon, Zoo Keeper, Zoologist, Biologist, Biotechnologist, Beauty Therapist Nurse, Careers in Forestry, Careers in Agriculture, Oceanographer.