

Biology

National 5

Progression through Biology

Higher
Biology

Higher Human
Biology



Course Content

Cell biology

- cell structure
- transport across cell membranes
- DNA and the production of proteins
- proteins
- genetic engineering
- respiration

Biology: multicellular organisms

- producing new cells
- control and communication
- reproduction
- variation and inheritance
- transport systems — plants
- transport systems — animals
- absorption of material

Biology: life on Earth

- ecosystems
- distribution of organisms
- photosynthesis
- energy in ecosystems
- food production
- evolution of species

Skills Developed

The following provides a broad overview of the subject skills, knowledge and understanding developed in the course:

- demonstrating knowledge and understanding of biology by making statements, describing information, providing explanations and integrating knowledge
- applying knowledge of biology to new situations, interpreting information and solving problems
- planning, designing and safely carrying out experimental/fieldwork investigations to test given hypotheses or to illustrate particular effects
- selecting information from a variety of sources
- presenting information appropriately in a variety of forms
- processing information (using calculations and units, where appropriate)
- making predictions and generalisations based on evidence/information
- drawing valid conclusions and giving explanations supported by evidence/justification
- suggesting improvements to experimental/fieldwork investigations
- communicating findings/information

Assessment

Exam Paper

100 marks

Practical Assignment

20 marks

Related Careers

A qualification in biology can lead to careers in medicine,

- farming
- environmental protection
- sports science and many others.

Some famous faces who have Biology-related degrees include Steve Backshall, Mayim Bialik, Harry Hill, Lisa Kudrow and Ashton Kutcher!

