



Course Choice Information – Biology Higher

Course Information & Content

The higher biology course is comprised of the following 3 units:

- **DNA and the Genome**
 - The key areas covered are: ♦ structure of DNA ♦ replication of DNA ♦ gene expression ♦ cellular differentiation ♦ the structure of the genome ♦ mutations ♦ evolution ♦ genomic sequencing
- **Metabolism and Survival**
 - The key areas covered are: ♦ metabolic pathways ♦ cellular respiration ♦ metabolic rate ♦ metabolism in conformers and regulators ♦ metabolism and adverse conditions ♦ environmental control of metabolism ♦ genetic control of metabolism
- **Sustainability and Interdependence**
 - The key areas covered are: ♦ food supply, plant growth and productivity ♦ plant and animal breeding ♦ crop protection ♦ animal welfare ♦ symbiosis ♦ social behaviour ♦ components of biodiversity ♦ threats to biodiversity

Assessment

SQA assessment:

A final exam of 2 question papers worth 120 marks. This takes 3 hours.

An assignment which is worth 20 marks. This requires around 8 hours of work and is sent away to be marked externally by the SQA.

In class assessment:

Pupils will be assessed on each unit with mid-unit and end of unit written assessments which will measure their progress throughout the course.

Homework

Pupils will be provided with a variety of regular homework exercises. These will include past paper questions, revision tasks etc.

Progression

Advanced Higher.

Career Options

Agriculture | Biochemistry | Biomedical Engineer | Biotechnology | Dentist/ Dental Hygienist | Dietician or Nutritionist | Geneticist/ genetic councillor | Marine Biologist/Zoologist | Medicine | Midwifery | Nursing | Paramedic | Pharmacist | Physiotherapist | Sports scientist | Veterinarian

[Further Information - SQA](#)

