

BIOLOGY - a subject for life!

Biology studies life in all its forms, from tiny single cells to whole organisms and how they interact with each other and their environment.

Biologists:

- investigate causes of disease and developing medicines and vaccines
- find ways to protect crops and ensure the safety of our food
- combat the effects of climate change
- fight the effects of environmental pollution

If you are fascinated by the world around you, then biology is the subject for you! In S3 Biology can be studied at Intermediate 1 level or Standard Grade.

Standard Grade Biology

In Standard Grade Biology, there are 7 topics:

Biosphere - survival of living things in changing environments - the "Green" topic



Investigating Cells - the structure and function of cells - the basic units of life.



Animal Survival - how animals obtain food, reproduce and cope with dangers



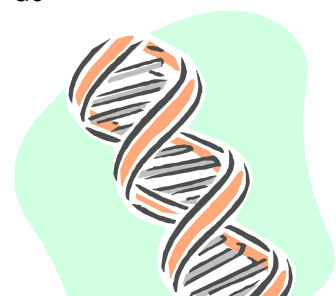
The Body in Action - how the body moves, gains energy and senses its surroundings



World of Plants - from seed to flower



Inheritance - how genes make us look the way we do



Biotechnology - the use of micro-organisms in industry



Standard Grade Biology is studied at **General** and **Credit** levels. The course includes practical work and experiments as well as development of problem solving skills and knowledge and understanding. During the course you will be tested on practical skills - this is worth 20% of your overall grade. You will also sit an external exam which will assess you in Knowledge and Understanding, and Problem Solving skills.

Progression - to Intermediate 2 Biology or Higher Human Biology in S5, with Advanced Higher Biology in S6.

Intermediate 1 Biology

In Intermediate 1 Biology, there are 3 units:

Biotechnological Industries

Pharmaceutical, dairy, detergent, baking and brewing industries



Growing Plants

Growing from seeds, seedlings, bulbs, cuttings. Using composts/fertilisers



Health and Technology

Promoting a healthy lifestyle and using technology to measure health of heart, lungs and body.



On the Intermediate 1 Biology course, each *unit* is assessed in class by an end of unit test and practical assessments. The *course* is assessed by sitting an external exam and in order to pass the whole course, you have to pass this exam as well as all 3 units. Each unit passed will be certificated by SQA.

Progression

Pupils who perform well in Intermediate 1 may progress to Intermediate 2 Biology in S5.

CAREERS IN BIOLOGY

Biology is a highly desirable and sometimes essential subject for many jobs

Health Service - nursing, medicine, laboratory technician



Pharmaceutical or Biotechnology industries

Food and drinks industry



Agriculture and horticulture

Environmental Biology

For further information on a career in Biology visit www.iob.org or www.biocareers.org.uk

