

National 4 Biology

Award Received

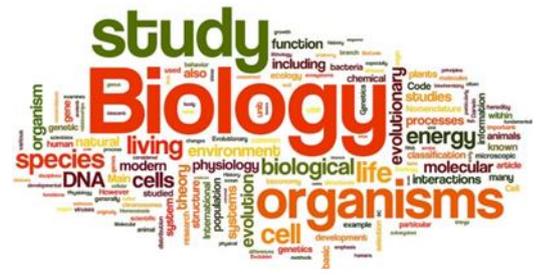
National 4 Biology is graded pass or fail,

Entry Level: What do I need to do it?

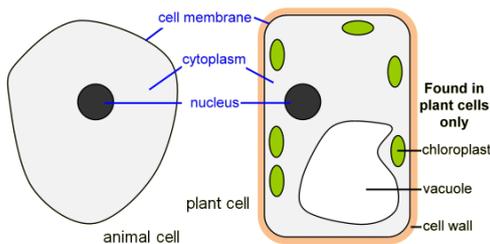
Entry into N4 Biology will normally depend on your attainment in the S3 Biology course.

Your S3 Biology teacher will advise you on whether N4 is an appropriate level of study for you.

Course Content: What will I learn?



Cell Biology



You will learn about cells and how they work. You will find out about the different parts of the cell and what they do.

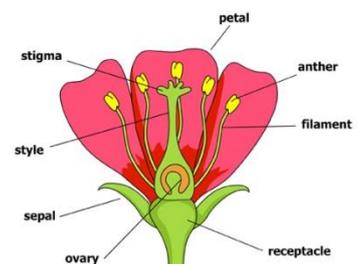
The key areas covered are: cell division and its role in growth and repair; DNA, genes and chromosomes; therapeutic use of cells; properties of enzymes and their use in industries; properties of

micro-organisms and their use in industries; the effect of limiting factors on photosynthesis; respiration and the factors that can affect it; controversial biological procedures.

Multicellular Organisms

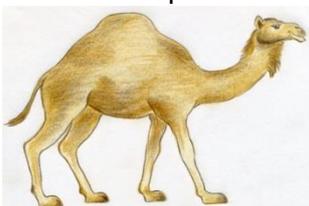
This topic covers many of the body systems of plants and animals and how they work.

The key areas covered are: sexual and asexual reproduction; propagating and growing plants; commercial uses of plants; genetic information; growth and development of different organisms, biological actions in response to internal and external changes to maintain body conditions.



Life on Earth

This topic looks at how plants and animals survive in the environment. The key areas covered are: interdependence of animals and plants; impact of population growth and natural hazards on biodiversity; nitrogen cycle, fertiliser design and impacts on the environment; adaptations for survival; learned behaviour.



Teaching Methods: What will I do?

Much of the course will be teacher-led but you will also be involved in a variety of tasks including practical experiments and investigations, written work, research and presentation tasks.

Assessment: How will I be assessed?

You will be assessed as follows:

- * Unit assessments, covering knowledge and understanding and problem solving
- * Investigation, including planning, carrying out and reporting on a practical investigation.
- * Assignment, including researching and reporting on a relevant topic of your choice.
- * Prelim, although there is no SQA final exam you will be given a prelim to help us decide whether or not progression to N5 is a suitable pathway for you.

Homework.

You will be given regular homework tasks, eg practice questions, research and revision tasks.

Progression in the Senior Phase.

High achieving and committed N4 Biology students would be recommended to progress to the N5 level of study.