

Why Biology?

Biology – the study of living organisms – affects us all. You will find out how Biology is helping to find solutions to world problems. Advances in technology mean biologists are exploring the use of genetic modification to produce new plants and drugs, solving crimes by understanding crime scene material, and developing new sources of food for our growing population.

There are many career opportunities connected with biology, including medicine, veterinary work, nursing, dentistry, physiotherapy, food science, agriculture, sports science, biomedical science, pharmacology and beauty therapy.

Course Outline

Biology is a hands-on subject that develops your analytical thinking, and helps you to solve problems through experiments and research.

You will learn about cells and proteins, organisms and evolution and investigative biology

BIOLOGY ADVANCED HIGHER

Details of Course Components

The course has three compulsory units, two of which are taught units and the third being partly taught plus a research project

Biology: Cells and Proteins:

- Laboratory techniques for biologists
- Proteins - proteomics
- Proteins - structure
- Membrane proteins
- Detecting & amplifying environmental stimuli
- Communication within multicellular organisms
- Protein control of cell division

Biology: Organisms and evolution:

- Field techniques for biologists
- Organisms - evolution
- Variation and inheritance
- Sex and behaviour
- Parasitism

Investigative Biology:

- Scientific principles and process
- Experimentation
- Critical evaluation of scientific work

ASSESSMENT

Your work will be assessed by your teacher on an ongoing basis and by the SQA at the end of the course

- Question paper set by the SQA (100 marks scaled to 120 marks)
- Project marked by the SQA (30 marks scaled to 40)



FACULTY OF SCIENCE

Biology Staff :

Mr Alan Stickle, Miss Rowan Cannell,
Miss Sue Rodwell

Chemistry Staff:

Mr Stephen McNeil, Miss Kat Barnard,
Mrs Maryann Blakeborough

Physics Staff:

Mrs Abi Gibbon, Mr Steven Dempsey

Career Areas:

There are many career opportunities connected with biology, including medicine, veterinary work, nursing, dentistry, physiotherapy, food science, agriculture, sports science, biomedical science, pharmacology and beauty therapy.

Courses in Turriff Academy

National 4 Environmental Science
National 4 Chemistry
National 4 Physics
National 5 Biology
National 5 Chemistry
National 5 Physics
Higher Biology
Higher Chemistry
Higher Physics
Scientific Technologies NPA
Advanced Higher Biology
Advanced Higher Chemistry
Advanced Higher Physics

Useful websites to help you with your choices:

www.myworldofwork.co.uk
www.skillsdevelopmentscotland.co.uk

Further advice and information on these options is available from your subject teacher, guidance teacher and careers adviser.