My World of Work

Career Areas

- Health and Medicine
- Manufacturing Industries
- Science and Mathematics /Biology / Food Science & Technology
- Animals, Land and Environment
- Hairdressing & Beauty / Beauty

Useful websites to help you with your choices:

www.myworldofwork.co.uk/

www.skillsdevelopmentscotland.co.uk

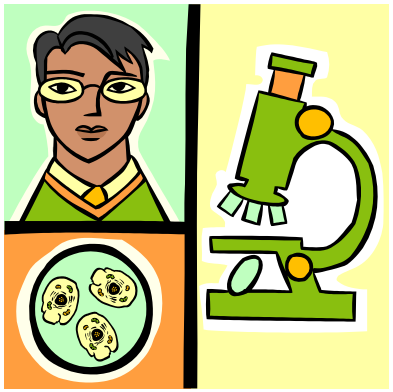
Further advice and information on these options is available from your subject teacher, guidance teacher and careers adviser.

OTHER INFORMATION

Biology staff:
Mr Stickle, Mrs Deans and Dr MacPherson

Faculty of Science

Biology Advanced Higher



TURRIFF ACADEMY
Email: turriff.aca@aberdeenshire.gov.uk

COURSE INFORMATION

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

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

Details of Course Components

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

- Experimental write-up (Outcome 1)
- Assessments covering knowledge and skills (Outcome 2)
- Question paper set by the SQA (100 marks)
- Project marked by the SQA (30 marks)

These arrangements will be subject to change by the SQA in April 2019

PROGRESSION

Successful completion of this course may lead to:

- HND in a biological subject
- Degree in a biological subject

FURTHER COURSES IN TURRIFF ACADEMY

Higher Chemistry
Higher Physics

Advanced Higher Chemistry
Advanced Higher Physics

Foundation Apprenticeship: Scientific Technologies

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