

Why Physics?

Physics is the study of the universe, from the largest galaxies to the smallest subatomic particles. Physicists play a key role in meeting society's needs in areas such as medicine, energy, industry, material development, the environment and sustainability.

Course outline

From the sources of the energy we use, to the exploration of space, Physics covers a range of applications that affect our lives. Studying Physics allows you to gain an insight into the underlying nature of our world and its place in the universe. It will help you to develop your logical and critical thinking, solve problems and make decisions.

PHYSICS ADVANCED HIGHER

Details of Course Components

The course has **four** compulsory units (2 full units and 2 half units)

- Rotational movement and astrophysics (full unit)
- Quanta and waves (full unit)
- Electromagnetism (half unit)
- Investigating physics (half unit)

Rotational movement and astrophysics

- Kinematic relationships
- Angular motion
- Rotational dynamics
- Gravitation
- General relativity

Quanta and waves

- Introduction to quantum theory
- Particles from space
- Simple harmonic motion
- Waves
- Interference
- Polarisation

Electromagnetism

- Fields
- Circuits
- Electromagnetic radiation

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



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:

Physicists play a key role in meeting society's needs in areas such as medicine, energy, industry, material development, the environment and sustainability.

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.