



Course Choice Information – Physics

Advanced Higher

Course Information & Content

The Advanced Higher Physics course is comprised of the following areas:

- **Rotational motion and astrophysics**
 - The topics covered are: ♦ kinematic relationships ♦ angular motion ♦ rotational dynamics ♦ gravitation ♦ general relativity ♦ stellar physics
- **Quanta and waves**
 - The topics covered are: ♦ introduction to quantum theory ♦ particles from space ♦ simple harmonic motion ♦ waves ♦ interference ♦ polarisation
- **Electromagnetism**
 - The topics covered are: ♦ fields ♦ circuits ♦ electromagnetic radiation
- **Units, prefixes and uncertainties**
 - The topics covered are: ♦ units, prefixes and scientific notation ♦ uncertainties ♦ data analysis ♦ evaluation and significance of experimental uncertainties

Assessment

SQA assessment:

A final exam of a question paper worth 155 marks. This takes 3 hours.

An advanced higher project which is worth 30 marks. This requires around at least 20 hours of work and is sent away to be marked externally by the SQA.

In class assessment:

Pupils will be assessed on each unit with end of unit written assessments which will measure their progress throughout the course.

Homework

Pupils will be provided with a variety of weekly homework exercises. These will include past paper questions, revision tasks etc.

Progression

Higher Education

Career Options

Aeronautical design | Astronomy | Computer industries | Electrician | Electronics | Engineering | Environmental Science | Geophysics | Nanotechnology | Nuclear Science | Photonics | Telecommunications

[Further Information - SQA](#)

