



Course Choice Information – Physics National 5

Course Information & Content

The National 5 Physics course is comprised of the following areas:

Dynamics

In this area, the topics covered are: vectors and scalars; velocity–time graphs; acceleration; Newton's laws; energy; projectile motion.

Space

In this area, the topics covered are: space exploration; cosmology.

Electricity

In this area, the topics covered are: electrical charge carriers; potential difference (voltage); Ohm's law; practical electrical and electronic circuits; electrical power.

Properties of matter

In this area, the topics covered are: specific heat capacity; specific latent heat; gas laws and the kinetic model.

Waves

In this area, the topics covered are: wave parameters and behaviours; electromagnetic spectrum; refraction of light.

Radiation

In this area, the topic covered is nuclear radiation.

Assessment

SQA assessment:

A final exam of a question paper worth 80% of the final grade. This takes 2.5 hours.

An assignment which is worth 20% of the final grade. This requires around 8 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, Advanced Higher.

Career Options

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

[Further Information - SQA](#)

